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*Gloeckner*

**YEAR-ROUND**

**CHRYSANTHEMUM**

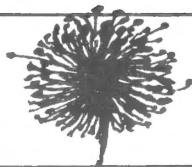
**MANUAL**

Fred C.  
*Gloeckner*  
&  
Company.  
Incorporated

15 EAST 26th STREET, NEW YORK 10, N. Y.

**1958**

# Gloeckner



# Chrysanthemum MANUAL

## TERMS OF SALE

Fifty rooted cuttings of each variety is the minimum that can be supplied. More than 50 of a variety must be in multiples of 50.

Any changes or cancellation of chrysanthemum orders must be received at least 30 days before shipping date. Every effort is being made to deliver stock which is free from pests, but purchases must be made with the understanding that we assume no responsibility for losses which may result from same.

To facilitate deliveries, cuttings will be shipped on Monday and Tuesday of each week. However, we will gladly make shipment on Friday or Saturday, if specifically requested and provided the order is received one month prior to the requested shipping date.

**WARRANTY AND LIMITATION OF LIABILITY:** Subject to the limitations of liability herein set forth, we warrant that the seeds, plants or bulbs sold are as described on the container, within recognized tolerances. Our liability on this warranty is limited in amount to the purchase price of the seeds, plants or bulbs. In no event shall we be liable for the crop, or for any loss due to the failure, impairment or quality thereof or varietal variance therein, whether such loss results from breach of the foregoing warranty, from breach of any other provision of the buyer's contract for purchase of said seeds, plants or bulbs, or from any other cause.

**PRICES SUBJECT TO CHANGE  
WITHOUT NOTICE**

# Gloeckner

## YEAR-ROUND CHRYSANTHEMUM MANUAL

The 1958 edition of the *Gloeckner Chrysanthemum Manual* contains descriptions of one-hundred and twenty-seven varieties never listed before. They result from the intensified breeding and trial programs of our propagators, and it is with pleasure that we introduce them to you here for the first time. Included among them are outstanding new varieties many of which round out the color selection in pot chrysanthemums. They are ideal growers, recommended for all seasons of the year.

In addition to these new varieties you will find in this thirteenth edition of your *Gloeckner Chrysanthemum Manual* a complete listing of available varieties, up-to-date information on how to produce money-making crops, plus comprehensive flowering schedules. Remember:

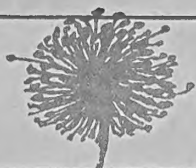
**"OUR INTEREST IN YOU AND YOUR CROPS BY NO MEANS ENDS WITH THE SALE, AS WE ARE MORE THAN ANXIOUS TO HAVE THE MATERIALS WE SELL, GROW AND PROVE PROFITABLE TO YOU."**

Fred C.  
**Gloeckner**  
&  
Company.  
Incorporated

**15 EAST 26th STREET  
NEW YORK 10, NEW YORK**

**Telephone: ORegon 9-6460 - 6461  
Cable Address: GLOECKNERS, N. Y.**





## Year-Round Flowering of Chrysanthemums

For the past twelve years we have seen cut chrysanthemums on the markets every month of the year. To assure high quality cut flowers the plants must be grown under optimum conditions. By optimum conditions we refer particularly to the basic conditions of a good soil, the disease-free condition of the plant material, the absence of any checks in growth from stock plant to the mature flowering plant, adequate means of temperature control for all stages of growth and the selection of the right varieties out of each group for the respective flowering periods. It is with this in mind that we prepare this Manual.

### Response Group

Prior to year-round flowering of chrysanthemums, we

referred to varieties as to their natural flowering date. Now that year-round flowering is in general use, we refer to a variety as to its response to short-day treatment. When we say 9 week response, we mean that it will bloom 9 weeks after the short-day treatment is started. A 13-week group requires 13 weeks after short-day treatment is started, and so on with all the other response groups.

### Daylength Control

When chrysanthemums are grown around the year, it is very necessary that we know when to apply shade or light to make the plants respond as we desire. The following schedule will give you the proper dates for lighting and shading for each response group.

### YEAR-ROUND LIGHTING AND SHADING SCHEDULE

Response Group	Shading to Stop in Fall	Lighting to Start in Fall	Shading to Start in Spring	Lighting to Stop in Spring
7 week	Aug. 25	July 14	Apr. 7	May 26
8 week	Sept. 1	July 21	Mar. 31	May 19
9 week	Sept. 8	July 28	Mar. 24	May 12
10 week	Sept. 15	Aug. 4	Mar. 17	May 5
11 week	Sept. 22	Aug. 11	Mar. 10	Apr. 28
12 week	Sept. 29	Aug. 18	Mar. 3	Apr. 21
13 week	Oct. 6	Aug. 25	Feb. 24	Apr. 14
14 week	Oct. 13	Sept. 1	Feb. 17	Apr. 7

### Lighting

The chrysanthemum is generally referred to as a short day plant but it is rightfully a long night plant. It requires a long night period of at least twelve hours or more to bud and flower properly. When we want to prevent bud initiation we should reduce the night period to at least seven hours. This is done by lighting the plants three to four hours each night, starting at 10 p.m.

To prevent the initiation of flower buds, the light intensity must not be lower than 7 foot-candles. When growing seven or eight week varieties this minimum should be 9 foot-candles.

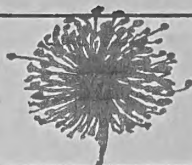
Usually we figure that it requires  $1\frac{1}{4}$  watts per sq. ft. of area covered; that includes benches and walks. When lighting a single bench 42 inches to 48 inches

wide use 60-watt lamps in a reflector, spaced 4 feet apart, 2 to 3 feet above the tops of the plants. For two benches 42 to 48 inches wide use 100-watt lamps in a reflector, spaced 6 feet apart, 2 to 3 feet above the tops of the plants.

Lights must be used according to the schedule above. It has been found that best results are secured by interrupting the night. Begin lighting at 10 p.m. for the number of hours shown below:

### ADDITIONAL LIGHTING SCHEDULE

- 3 Hours during the months of August, September, October, March, April and May.
- 4 Hours during the months of November, December, January and February.



## Year-Round Flowering of Chrysanthemums

### Shading

Use a good durable **Black Cloth** which when applied will reduce the light intensity to 2 foot-candles or less. More light intensity than this will result in delayed flowering and unevenness of bloom.

The cloth should be applied at 5 p.m. and removed at 8 a.m. When the temperature is above 90 degrees at 5 p.m. delay the application of the cloth until 6 or 7 p.m. This will reduce the heat under the cloth and yet produce twelve hours or more of night necessary for proper development. Continue covering each evening on pompons until the latest buds show color and most of the flowers are well developed. For large flowering varieties, shading can be discontinued after all flowering buds have attained the diameter of approximately one-half inch.

Be sure that covering is complete on all benches shaded, as any leaks in light will cause uneven spots in the bench at blooming time.

Black cloth should be applied each evening. Missing one night a week will give fair results, but delayed flowering results when cloth is not applied each evening.

### Temperature Control

For inter-connected units or crops at different stages of development the most efficient and effective temperature recommendations we can make are **cool 60° crops**. The house temperature is run at a straight 60° level night and day, cloudy or sunny. This is the lowest, safest minimum. It is the night temperature that counts. Eliminating fluctuation promotes steady, gradual growth. Keeping day temperatures down encourages more ventilation with corresponding reduction in relative humidity. This promotes stronger, heavier stems. On very bright days temperatures will frequently go

higher but this should be due to radiant heat from the sun rather than convective greenhouse heat.

Excessive high temperatures prohibit the bud development, and during seasons of 90 degree night temperatures, it is suggested that the black cloth be raised after twilight and lowered again in the morning before daylight. This cooler temperature hastens the development of the buds. Air conditioning greenhouses has made it possible to grow chrysanthemums in locations where natural high temperatures prohibited the development of this crop.

### Selection and Varieties

The careful selection of varieties in year-round flowering is very important. An intimate knowledge of varieties will eliminate the pitfalls associated with this crop. Knowing how to select varieties on the basis of response groups is equally as important as selecting varieties that will respond out of season.

In latitudes where seasons, temperature and light conditions are variable, it is to any grower's advantage that he grow only those varieties that will provide the highest yields and best quality for each period of the year.

The South is of course more fortunate in that light duration there and intensity fluctuates less than is experienced in the North, and even though only three or four response groups are used during a 52-week period, the need for meticulous varietal planning is just as important as it is for any one period in the North.

Your **Gloeckner** representative is well equipped to furnish you the details and the proper varieties for each particular flowering date. His intimate knowledge will eliminate the guess work associated with mum programming.



*Well Grown Year-Round Crops — Note lights and black cloth*



## Year-Round Flowering of Chrysanthemums

### INTERRUPTED LIGHTING FOR WINTER STANDARDS

When flowering December thru March crops of the standard varieties Indianapolis, Queen's and Mefo's the use of interrupted lighting has been tested and is recommended as a means of increasing petallage. This materially improves the appearance of the flower reducing the effect of decreased petallage and quilling known to be associated with abrupt shade during the short days of the **winter period**.

The essential requirements are:

1. Units planted to only the above mentioned varieties. The procedure has not been thoroughly tested on spray varieties or other standard varieties.
2. Accurate control of temperature. A 60° minimum night at all positions within the unit plus correspondingly higher day temperatures. Cloudy days were run at the 60° minimum. Bright days were between 65°-70°.
3. A rigid adherence to scheduled timing recommendations with interruption.
4. No extreme temperature reduction at or near the finish of the crop. Low temperature is known to be partly responsible for an increase of quilling in the Indianapolis varieties. A minimum of 55° is satisfactory only after buds show some color.

5. The method recommended is as follows:

For any given crop to be flowered during the **December through March** period determine from the schedule the date lights are stopped. Count back twelve (12) days and on this date start and maintain nine (9) continuous short days of no lights. At the end of this nine (9) short day period run twelve (12) continuous days of lights on. Then turn lights out and maintain normal short days.

Thus the total number of long days as called for by the schedule remains the same. This second long day period immediately following the first short day period of nine (9) days serves to slow down the early bud development stage resulting in a petallage increase of approximately 50%.

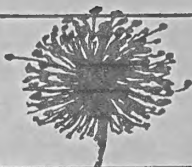
To illustrate: For flowering Indianapolis White (10 week) for December 15 the schedule calls for October 6 lights out. Counting back twelve (12) days gives September 24. Therefore run short days from September 24 to and including October 2 (9 continuous short days). Starting October 3, run twelve (12) long days to and including October 14. On October 15 start the final and continuous short day period. This is the nine (9) short day—twelve (12) long day formula for interrupted lighting.



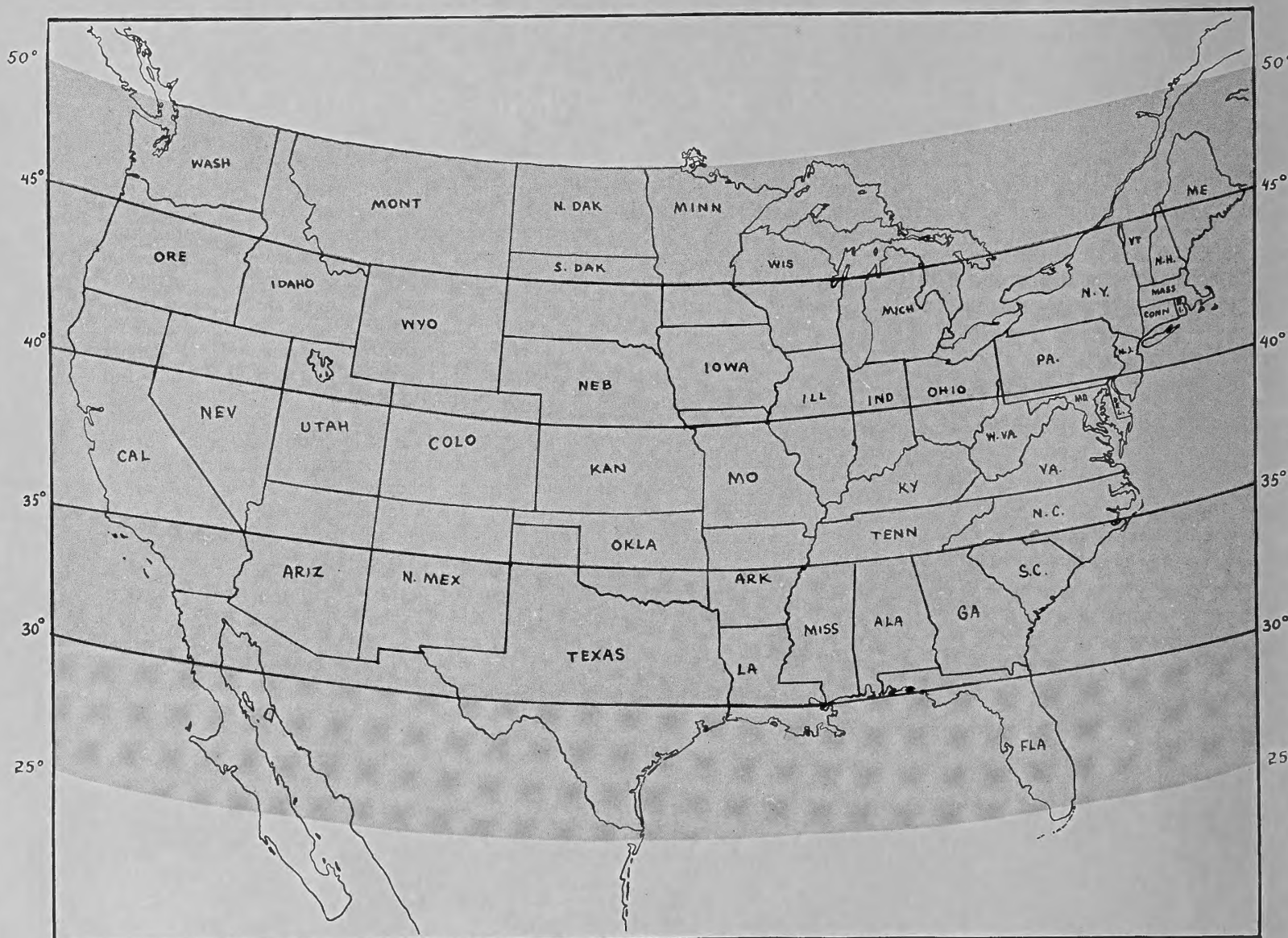
*Well Grown House of Indianapolis  
For January Bloom*



*Supporting Standards with Wires and Cross Strings*



## Year-Round Flowering of Chrysanthemums



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*Standards in Saran House Protected with Polyethylene after Color Developed*



**THE MAP ABOVE WILL ASSIST YOU IN LOCATING THE LATITUDE IN WHICH YOUR GREENHOUSE IS LOCATED. YOU NEED THIS INFORMATION TO USE THE FLOWERING SCHEDULES THAT FOLLOW ON THE NEXT PAGES.**





## Year-Round Chrysanthemum Flowering Schedule

**BLOOM JANUARY 5, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Aug. 18	Sept. 8	Sept. 1 —Sept. 29	no	14 Week
			Aug. 25—Oct. 6	no	13 Week
			Aug. 18—Oct. 13	no	12 Week
			Aug. 18—Oct. 20	no	11 Week
			Aug. 18—Oct. 27	no	10 Week
35-40°	Aug. 25	Sept. 15	Sept. 1 —Sept. 29	no	14 Week
			Aug. 25—Oct. 6	no	13 Week
			Aug. 25—Oct. 13	no	12 Week
			Aug. 25—Oct. 20	no	11 Week
			Aug. 25—Oct. 27	no	10 Week
30-35°	Sept. 1	Sept. 22	Sept. 1 —Oct. 6	no	13 Week
			Sept. 1 —Oct. 13	no	12 Week
			Sept. 1 —Oct. 20	no	11 Week
			Sept. 1 —Oct. 27	no	10 Week
25-30°	Sept. 8	Sept. 29	Sept. 8 —Oct. 13	no	12 Week
			Sept. 8 —Oct. 20	no	11 Week
			Sept. 8 —Oct. 27	no	10 Week

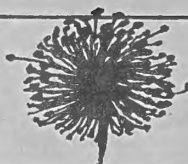
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b>		<b>Chattanooga</b> <b>December Glory</b>	<b>Marketeer</b>	<b>Crystal Queen</b> <b>Imp. Ind. White</b> <b>Mefo</b>
	<b>P</b>	<b>Silversmith</b> <b>Snowcap</b> <b>Wh. Riviera</b>	<b>Acclaim</b> <b>Icecap</b> <b>Illini Alba</b> <b>Northwind</b> <b>Satellite</b> <b>Snowcrest</b> <b>Snowstorm</b>	<b>Belray</b> <b>Carrara</b> <b>Paramount</b> <b>Sculpture</b> <b>Surfside</b>	<b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Whitetop</b> <b>Featherfop</b>
<b>YELLOW</b>	<b>S</b>		<b>Dk. Yel. Chat'n'ga</b> <b>Golden Pearson</b> <b>Yellow Glory</b>	<b>Harvester</b>	<b>Cream Mefo</b> <b>Gordon Wells</b> <b>Imp. Ind. Yellow</b> <b>Yellow Mefo</b> <b>Yellow Queen</b>
	<b>P</b>	<b>Ill. Brighteyes</b> <b>Shamrock</b> <b>Sun Valley</b> <b>Yel. Riviera</b>	<b>Coronation</b> <b>Cinderella</b> <b>Dk. Yel. Satellite</b> <b>Corsair</b> <b>Gold Acclaim</b> <b>Yel. Snowcrest</b>	<b>Omega</b> <b>Yellow Galaxy</b>	<b>Esquire</b> <b>Pippin</b> <b>Gold Ball</b> <b>Lollipop</b> <b>Souvenir</b> <b>Yel. Sculpture</b> <b>Yel. Taffeta</b>
<b>BRONZE &amp; RED</b>	<b>S</b>		<b>Oak Leaf</b> <b>Br. Peter John</b>	<b>Calvert's Gold</b> <b>Valentine</b>	<b>Ind. Bronze</b> <b>Copper Queen</b>
	<b>P</b>	<b>Br. Riviera</b> <b>Merrymaker</b> <b>Topaz</b>	<b>Christmas Star</b> <b>Crackerjack</b> <b>Galaxy</b> <b>Orange Galaxy</b>	<b>Br. Jubilation</b>	<b>Beauregard</b> <b>Climax</b> <b>Br. Portrait</b>
<b>PINK</b>	<b>S</b>		<b>Pink Peter John</b>	<b>Ed Seidewitz</b> <b>Thanks. Pink</b>	<b>Ind. Pink</b> <b>Orchid Queen</b>
	<b>P</b>	<b>Alvoda</b> <b>Riviera</b> <b>Rosalind</b>	<b>Debutante</b> <b>Eminence</b> <b>Pink Snowdrop</b>	<b>Delmar</b>	<b>Almega</b> <b>Celebrity</b> <b>Jubilation</b> <b>Rhythm</b> <b>Staccato</b>

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM JANUARY 12, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Aug. 18	Sept. 8	Sept. 1 —Oct. 6	no	14 Week
			Aug. 25—Oct. 13	no	13 Week
			Aug. 18—Oct. 20	no	12 Week
			Aug. 18—Oct. 27	no	11 Week
			Aug. 18—Nov. 3	no	10 Week
35-40°	Aug. 25	Sept. 15	Sept. 1 —Oct. 6	no	14 Week
			Aug. 25—Oct. 13	no	13 Week
			Aug. 25—Oct. 20	no	12 Week
			Aug. 25—Oct. 27	no	11 Week
			Aug. 25—Nov. 3	no	10 Week
30-35°	Sept. 1	Sept. 22	Sept. 1 —Oct. 13	no	13 Week
			Sept. 1 —Oct. 20	no	12 Week
			Sept. 1 —Oct. 27	no	11 Week
			Sept. 1 —Oct. 20	no	10 Week
25-30°	Sept. 15	Oct. 6	Sept. 15—Oct. 20	no	12 Week
			Sept. 15—Oct. 27	no	11 Week
			Sept. 15—Nov. 3	no	10 Week

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b>		<b>Chaffanooga</b> <b>December Glory</b>	<b>Marketeer</b>	<b>Crystal Queen</b> <b>Imp. Ind. White</b> <b>Mefo</b>
	<b>P</b>	<b>Silversmith</b> <b>Snowcap</b> <b>Wh. Riviera</b>	<b>Acclaim</b> <b>Icecap</b> <b>Illini Alba</b> <b>Northwind</b> <b>Satellite</b> <b>Snowcrest</b> <b>Snowstorm</b>	<b>Belray</b> <b>Carrara</b> <b>Paramount</b> <b>Sculpture</b> <b>Surfside</b>	<b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Whitetop</b> <b>Featherfop</b>
<b>YELLOW</b>	<b>S</b>		<b>Dk. Yel. Chat'n'ga</b> <b>Golden Pearson</b> <b>Yellow Glory</b>	<b>Harvester</b>	<b>Cream Mefo</b> <b>Gordon Wells</b> <b>Imp. Ind. Yellow</b> <b>Yellow Mefo</b> <b>Yellow Queen</b>
	<b>P</b>	<b>Ill. Brighteyes</b> <b>Shamrock</b> <b>Sun Valley</b> <b>Yel. Riviera</b>	<b>Coronation</b> <b>Cinderella</b> <b>Dk. Yel. Satellite</b> <b>Corsair</b> <b>Gold Acclaim</b> <b>Yel. Snowcrest</b>	<b>Esquire</b> <b>Pippin</b> <b>Gold Ball</b> <b>Lollipop</b> <b>Souvenir</b> <b>Yel. Sculpture</b> <b>Yel. Taffeta</b>	<b>Heyday</b> <b>Yel. Iceberg</b> <b>Yellow Igloo</b> <b>Yel. Beauregard</b> <b>Yellow Shasta</b> <b>Yellowtop</b>
<b>BRONZE &amp; RED</b>	<b>S</b>		<b>Oak Leaf</b> <b>Br. Peter John</b>	<b>Calvert's Gold</b> <b>Valentine</b>	<b>Ind. Bronze</b> <b>Copper Queen</b>
	<b>P</b>	<b>Br. Riviera</b> <b>Merrymaker</b> <b>Topaz</b>	<b>Christmas Star</b>  <b>Crackerjack</b> <b>Galaxy</b> <b>Orange Galaxy</b>	<b>Br. Jubilation</b>	<b>Beauregard</b> <b>Climax</b> <b>Br. Portrait</b>
<b>PINK</b>	<b>S</b>		<b>Pink Peter John</b>	<b>Ed Seidewitz</b> <b>Thanks. Pink</b>	<b>Ind. Pink</b> <b>Orchid Queen</b>
	<b>P</b>	<b>Alvoda</b> <b>Riviera</b> <b>Rosalind</b>	<b>Debutante</b> <b>Eminence</b> <b>Pink Snowdrop</b>	<b>Almega</b> <b>Celebrity</b> <b>Jubilation</b> <b>Rhythm</b> <b>Staccato</b>	<b>Pennant</b> <b>Portrait</b> <b>Profile</b>

S—Standard

P—Pompon





## Year-Round Chrysanthemum Flowering Schedule

**BLOOM JANUARY 19, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Aug. 25	Sept. 15	Sept. 1 —Oct. 13	no	14 Week
			Aug. 25—Oct. 20	no	13 Week
			Aug. 25—Oct. 27	no	12 Week
			Aug. 25—Nov. 3	no	11 Week
			Aug. 25—Nov. 10	no	10 Week
35-40°	Sept. 1	Sept. 22	Sept. 1 —Oct. 13	no	14 Week
			Sept. 1 —Oct. 20	no	13 Week
			Sept. 1 —Oct. 27	no	12 Week
			Sept. 1 —Nov. 3	no	11 Week
			Sept. 1 —Nov. 10	no	10 Week
30-35°	Sept. 8	Sept. 29	Sept. 8 —Oct. 20	no	13 Week
			Sept. 8 —Oct. 27	no	12 Week
			Sept. 8 —Nov. 3	no	11 Week
			Sept. 8 —Nov. 10	no	10 Week
25-30°	Sept. 22	Oct. 13	Sept. 22—Oct. 27	no	12 Week
			Sept. 22—Nov. 3	no	11 Week
			Sept. 22—Nov. 10	no	10 Week

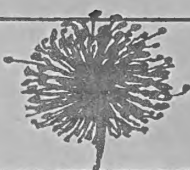
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
<b>WHITE</b>	S		<b>Chattanooga</b> <b>December Glory</b>	<b>Marketeer</b>	<b>Crystal Queen</b> <b>Imp. Ind. White</b> <b>Mefo</b>
	P	<b>Silversmith</b> <b>Snowcap</b> <b>Wh. Riviera</b>	<b>Acclaim</b> <b>Icecap</b> <b>Illini Alba</b> <b>Northwind</b> <b>Satellite</b> <b>Snowcrest</b> <b>Snowstorm</b>	<b>Belray</b> <b>Carrara</b> <b>Paramount</b> <b>Sculpture</b> <b>Surfside</b>	<b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Whitetop</b> <b>Featherstop</b>
<b>YELLOW</b>	S		<b>Dk. Yel. Chat'n'ga</b> <b>Golden Pearson</b> <b>Yellow Glory</b>	<b>Harvester</b>	<b>Cream Mefo</b> <b>Gordon Wells</b> <b>Imp. Ind. Yellow</b> <b>Yellow Mefo</b> <b>Yellow Queen</b>
	P	<b>Ill. Brighteyes</b> <b>Shamrock</b> <b>Sun Valley</b> <b>Yel. Riviera</b>	<b>Coronation</b> <b>Cinderella</b> <b>Dk. Yel. Satellite</b> <b>Corsair</b> <b>Gold Acclaim</b> <b>Yel. Snowcrest</b>	<b>Omega</b> <b>Yellow Galaxy</b>	<b>Esquire</b> <b>Pippin</b> <b>Gold Ball</b> <b>Lollipop</b> <b>Souvenir</b> <b>Yel. Sculpture</b> <b>Yel. Taffeta</b>
<b>BRONZE &amp; RED</b>	S		<b>Oak Leaf</b> <b>Br. Peter John</b>	<b>Calvert's Gold</b> <b>Valentine</b>	<b>Ind. Bronze</b> <b>Copper Queen</b>
	P	<b>Br. Riviera</b> <b>Merrymaker</b> <b>Topaz</b>	<b>Christmas Star</b> <b>Crackerjack</b> <b>Galaxy</b> <b>Orange Galaxy</b>	<b>Br. Jubilation</b>	<b>Beauregard</b> <b>Climax</b> <b>Br. Portrait</b>
<b>PINK</b>	S		<b>Pink Peter John</b>	<b>Ed Seidewitz</b> <b>Thanks. Pink</b>	<b>Ind. Pink</b> <b>Orchid Queen</b>
	P	<b>Alvoda</b> <b>Riviera</b> <b>Rosalind</b>	<b>Debutante</b> <b>Eminence</b> <b>Pink Snowdrop</b>	<b>Delmar</b>	<b>Almega</b> <b>Celebrity</b> <b>Jubilation</b> <b>Rhythm</b> <b>Staccato</b>

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM JANUARY 26, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Sept. 1	Sept. 22	Sept. 1 —Oct. 20	no	14 Week
			Sept. 1 —Oct. 27	no	13 Week
			Sept. 1 —Nov. 3	no	12 Week
			Sept. 1 —Nov. 10	no	11 Week
			Sept. 1 —Nov. 17	no	10 Week
35-40°	Sept. 8	Sept. 29	Sept. 8 —Oct. 20	no	14 Week
			Sept. 8 —Oct. 27	no	13 Week
			Sept. 8 —Nov. 3	no	12 Week
			Sept. 8 —Nov. 10	no	11 Week
			Sept. 8 —Nov. 17	no	10 Week
30-35°	Sept. 15	Oct. 6	Sept. 15—Oct. 27	no	13 Week
			Sept. 15—Nov. 3	no	12 Week
			Sept. 15—Nov. 10	no	11 Week
			Sept. 15—Nov. 17	no	10 Week
25-30°	Sept. 22	Oct. 13	Sept. 22—Nov. 3	no	12 Week
			Sept. 22—Nov. 10	no	11 Week
			Sept. 22—Nov. 17	no	10 Week

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b>		<b>Chaffanooga</b> <b>December Glory</b>	<b>Marketeer</b>	<b>Crystal Queen</b> <b>Imp. Ind. White</b> <b>Melo</b>
	<b>P</b>	<b>Silversmith</b> <b>Snowcap</b> <b>Wh. Riviera</b>	<b>Acclaim</b> <b>Icecap</b> <b>Illini Alba</b> <b>Northwind</b> <b>Satellite</b> <b>Snowcrest</b> <b>Snowstorm</b>	<b>Belray</b> <b>Carrara</b> <b>Paramount</b> <b>Sculpture</b> <b>Surfside</b>	<b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Whitotop</b> <b>Featherotop</b>
<b>YELLOW</b>	<b>S</b>		<b>Dk. Yel. Chat'n'ga</b> <b>Golden Pearson</b> <b>Yellow Glory</b>	<b>Harvester</b>	<b>Cream Melo</b> <b>Gordon Wells</b> <b>Imp. Ind. Yel.</b> <b>Yellow Melo</b> <b>Yellow Queen</b>
	<b>P</b>	<b>Ill. Brighteyes</b> <b>Shamrock</b> <b>Sun Valley</b> <b>Yel. Riviera</b>	<b>Coronation</b> <b>Cinderella</b> <b>Dk. Yel. Satellite</b> <b>Corsair</b> <b>Gold Acclaim</b> <b>Yel. Snowcrest</b>	<b>Omega</b> <b>Yellow Galaxy</b>	<b>Esquire</b> <b>Pippin</b> <b>Gold Ball</b> <b>Lollipop</b> <b>Souvenir</b> <b>Yel. Sculpture</b> <b>Yel. Taffeta</b>
<b>BRONZE &amp; RED</b>	<b>S</b>		<b>Oak Leaf</b> <b>Br. Peter John</b>	<b>Calvert's Gold</b> <b>Valentine</b>	<b>Ind. Bronze</b> <b>Copper Queen</b>
	<b>P</b>	<b>Br. Riviera</b> <b>Merrymaker</b> <b>Topaz</b>	<b>Christmas Star</b>	<b>Crackerjack</b> <b>Galaxy</b> <b>Orange Galaxy</b>	<b>Br. Jubilation</b> <b>Beauregard</b> <b>Climax</b> <b>Br. Portrait</b>
<b>PINK</b>	<b>S</b>		<b>Pk. Peter John</b>	<b>Ed. Seidewitz</b> <b>Thanks. Pink</b>	<b>Ind. Pink</b> <b>Orchid Queen</b>
	<b>P</b>	<b>Alvoda</b> <b>Riviera</b> <b>Rosalind</b>	<b>Debutante</b> <b>Eminence</b> <b>Pink Snowdrop</b>	<b>Delmar</b>	<b>Almega</b> <b>Celebrity</b> <b>Jubilation</b> <b>Rhythm</b> <b>Staccato</b>
					<b>Pennant</b> <b>Portrait</b> <b>Profile</b>

S—Standard

P—Pompon





## Year-Round Chrysanthemum Flowering Schedule

**BLOOM FEBRUARY 2, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Sept. 1	Sept. 22	Sept. 1 —Oct. 27	no	14 Week
			Sept. 1 —Nov. 3	no	13 Week
			Sept. 1 —Nov. 10	no	12 Week
			Sept. 1 —Nov. 17	no	11 Week
			Sept. 1 —Nov. 24	no	10 Week
35-40°	Sept. 8	Sept. 29	Sept. 8 —Nov. 3	no	13 Week
			Sept. 8 —Nov. 10	no	12 Week
			Sept. 8 —Nov. 17	no	11 Week
			Sept. 8 —Nov. 24	no	10 Week
30-35°	Sept. 22	Oct. 13	Sept. 22—Nov. 3	no	13 Week
			Sept. 22—Nov. 10	no	12 Week
			Sept. 22—Nov. 17	no	11 Week
			Sept. 22—Nov. 24	no	10 Week
25-30°	Sept. 29	Oct. 20	Sept. 29—Nov. 10	no	12 Week
			Sept. 29—Nov. 17	no	11 Week
			Sept. 29—Nov. 24	no	10 Week

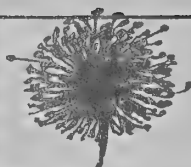
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b>		<b>Chattanooga</b> <b>December Glory</b>	<b>Marketeer</b>	<b>Crystal Queen</b> <b>Imp. Ind. White</b> <b>Melo</b>
	<b>P</b>	<b>Silversmith</b> <b>Snowcap</b> <b>Wh. Riviera</b>		<b>Belray</b> <b>Carrara</b> <b>Paramount</b> <b>Sculpture</b> <b>Surfside</b>	<b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Whitetop</b> <b>Featherfop</b>
<b>YELLOW</b>	<b>S</b>		<b>Dk. Yel. Chat'n'ga</b> <b>Golden Pearson</b> <b>Yellow Glory</b>	<b>Harvester</b>	<b>Cream Melo</b> <b>Gordon Wells</b> <b>Imp. Ind. Yellow</b> <b>Yellow Melo</b> <b>Yellow Queen</b>
	<b>P</b>	<b>Ill. Brighteyes</b> <b>Shamrock</b> <b>Sun Valley</b> <b>Yel. Riviera</b>	<b>Omega</b> <b>Yellow Galaxy</b>	<b>Esquire</b> <b>Pippin</b> <b>Gold Ball</b> <b>Lollipop</b> <b>Souvenir</b> <b>Yel. Sculpture</b> <b>Yel. Taffeta</b>	<b>Heyday</b> <b>Yel. Iceberg</b> <b>Yellow Igloo</b> <b>Yel. Beauregard</b> <b>Yellow Shasta</b> <b>Yellowtop</b>
<b>BRONZE &amp; RED</b>	<b>S</b>		<b>Oak Leaf</b> <b>Br. Peter John</b>	<b>Calvert's Gold</b> <b>Valentine</b>	<b>Ind. Bronze</b> <b>Copper Queen</b>
	<b>P</b>	<b>Br. Riviera</b> <b>Merrymaker</b>	<b>Crackerjack</b> <b>Galaxy</b> <b>Orange Galaxy</b>	<b>Br. Jubilation</b>	<b>Beauregard</b> <b>Climax</b> <b>Br. Portrait</b>
<b>PINK</b>	<b>S</b>		<b>Pk. Peter John</b>	<b>Ed. Seidwitz</b> <b>Thanks. Pink</b>	<b>Ind. Pink</b> <b>Orchid Queen</b>
	<b>P</b>	<b>Alvoda</b> <b>Riviera</b> <b>Rosalind</b>	<b>Delmar</b>	<b>Almega</b> <b>Celebrity</b> <b>Jubilation</b> <b>Rhythm</b> <b>Staccato</b>	<b>Pennant</b> <b>Portrait</b> <b>Profile</b>

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM FEBRUARY 9, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Sept. 8	Sept. 29	Sept. 8 —Nov. 3	no	14 Week
			Sept. 8 —Nov. 10	no	13 Week
			Sept. 8 —Nov. 17	no	12 Week
			Sept. 8 —Nov. 24	no	11 Week
			Sept. 8 —Dec. 1	no	10 Week
35-40°	Sept. 15	Oct. 6	Sept. 15—Nov. 10	no	13 Week
			Sept. 15—Nov. 17	no	12 Week
			Sept. 15—Nov. 24	no	11 Week
			Sept. 15—Dec. 1	no	10 Week
30-35°	Sept. 29	Oct. 20	Sept. 29—Nov. 10	no	13 Week
			Sept. 29—Nov. 17	no	12 Week
			Sept. 29—Nov. 24	no	11 Week
			Sept. 29—Dec. 1	no	10 Week
25-30°	Oct. 6	Oct. 27	Oct. 6 —Nov. 24	no	11 Week
			Oct. 6 —Dec. 1	no	10 Week

\*For No Pinch Method: Plant and Light on Pinch Date

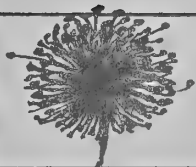
### VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b>		<b>Chattanooga</b> <b>December Glory</b>	<b>Marketeer</b>	<b>Crystal Queen</b> <b>Imp. Ind. White</b> <b>Melo</b>
	<b>P</b>	<b>Silversmith</b> <b>Snowcap</b> <b>Wh. Riviera</b>	<b>Acclaim</b> <b>Icecap</b> <b>Illini Alba</b> <b>Northwind</b> <b>Satellite</b> <b>Snowcrest</b> <b>Snowstorm</b>	<b>Belray</b> <b>Carrara</b> <b>Paramount</b> <b>Sculpture</b> <b>Surfside</b>	<b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Whitetop</b> <b>Featherstop</b>
<b>YELLOW</b>	<b>S</b>		<b>Dk. Yel. Chaf'n'ga</b> <b>Golden Pearson</b> <b>Yellow Glory</b>	<b>Harvester</b>	<b>Cream Melo</b> <b>Gordon Wells</b> <b>Imp. Ind. Yellow</b> <b>Yellow Melo</b> <b>Yellow Queen</b>
	<b>P</b>	<b>Ill. Brighteyes</b> <b>Shamrock</b> <b>Sun Valley</b> <b>Yel. Riviera</b>	<b>Coronation</b> <b>Cinderella</b> <b>Dk. Yel. Satellite</b> <b>Corsair</b> <b>Gold. Acclaim</b> <b>Yel. Snowcrest</b>	<b>Omega</b> <b>Yellow Galaxy</b>	<b>Esquire</b> <b>Pippin</b> <b>Gold Ball</b> <b>Lollipop</b> <b>Souvenir</b> <b>Yel. Sculpture</b> <b>Yel. Taffeta</b>
<b>BRONZE &amp; RED</b>	<b>S</b>		<b>Oak Leaf</b> <b>Br. Peter John</b>	<b>Calvert's Gold</b> <b>Valentine</b>	<b>Ind. Bronze</b> <b>Copper Queen</b>
	<b>P</b>	<b>Br. Riviera</b> <b>Merrymaker</b>	<b>Christmas Star</b>	<b>Crackerjack</b> <b>Galaxy</b> <b>Orange Galaxy</b>	<b>Br. Jubilation</b> <b>Beauregard</b> <b>Climax</b> <b>Br. Portrait</b>
<b>PINK</b>	<b>S</b>		<b>Pk. Peter John</b>	<b>Ed. Seidwitz</b> <b>Thanks. Pink</b>	<b>Ind. Pink</b> <b>Orchid Queen</b>
	<b>P</b>	<b>Alvoda</b> <b>Riviera</b> <b>Rosalind</b>	<b>Debutante</b> <b>Eminence</b> <b>Pink Snowdrop</b>	<b>Delmar</b>	<b>Almega</b> <b>Celebrity</b> <b>Jubilation</b> <b>Rhythm</b> <b>Staccato</b>

S—Standard

P—Pompon





## Year-Round Chrysanthemum Flowering Schedule

**BLOOM FEBRUARY 16, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Sept. 15	Oct. 6	Sept. 15—Nov. 17	no	13 Week
			Sept. 15—Nov. 24	no	12 Week
			Sept. 15—Dec. 1	no	11 Week
			Sept. 15—Dec. 8	no	10 Week
35-40°	Sept. 22	Oct. 13	Sept. 22—Nov. 17	no	13 Week
			Sept. 22—Nov. 24	no	12 Week
			Sept. 22—Dec. 1	no	11 Week
			Sept. 22—Dec. 8	no	10 Week
30-35°	Oct. 6	Oct. 27	Oct. 6—Nov. 24	no	12 Week
			Oct. 6—Dec. 1	no	11 Week
			Oct. 6—Dec. 8	no	10 Week
25-30°	Oct. 13	Nov. 3	Oct. 13—Dec. 1	no	11 Week
			Oct. 13—Dec. 8	no	10 Week

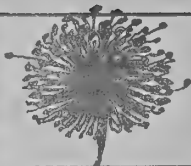
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	13 Week	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b>	<b>Chattanooga</b>	<b>Marketeer</b>	<b>Crystal Queen</b> <b>Imp. Ind. White</b> <b>Melo</b>
	<b>P</b> Acclaim Icecap Illini Alba Northwind Satellite Snowcrest Snowstorm		<b>Belray</b> <b>Carrara</b> <b>Paramount</b> <b>Sculpture</b> <b>Surfside</b>	<b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Whitetop</b> <b>Feathertop</b>
<b>YELLOW</b>	<b>S</b>	<b>Dk. Yel. Chattan'ga</b> <b>Golden Pearson</b>	<b>Harvester</b>	<b>Cream Melo</b> <b>Gordon Wells</b> <b>Imp. Ind. Yellow</b> <b>Yellow Melo</b> <b>Yellow Queen</b>
	<b>P</b> Cinderella Coronation Corsair Dk. Yel. Satellite Golden Acclaim Yel. Snowcrest	<b>Omega</b> <b>Yellow Galaxy</b>	<b>Esquire</b> <b>Etude</b> <b>Pippin</b> <b>Lollipop</b> <b>Souvenir</b> <b>Yel. Sculpture</b>	<b>Heyday</b> <b>Yel. Beauregard</b> <b>Yel. Iceberg</b> <b>Yellow Igloo</b> <b>Yellow Shasta</b> <b>Yellowtop</b>
<b>BRONZE &amp; RED</b>	<b>S</b>	<b>Oak Leaf</b>	<b>Calvert's Gold</b> <b>Valentine</b>	<b>Ind. Bronze</b> <b>Copper Queen</b>
	<b>P</b> Christmas Star	<b>Crackerjack</b> <b>Galaxy</b> <b>Orange Galaxy</b>	<b>Br. Jubilation</b> <b>Thelma</b>	<b>Beauregard</b> <b>Bronzechip</b> <b>Br. Portrait</b>
<b>PINK</b>	<b>S</b>			<b>Ind. Pink</b> <b>Orchid Queen</b>
	<b>P</b> Debutante Eminence Pink Snowdrop	<b>Delmar</b>	<b>Almega</b> <b>Celebrity</b> <b>Jubilation</b> <b>Rhythm</b> <b>Staccato</b>	<b>Pennant</b> <b>Portrait</b> <b>Profile</b> <b>Bluechip</b>

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM FEBRUARY 23, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Sept. 22	Oct. 13	Sept. 22—Nov. 24	no	13 Week
			Sept. 22—Dec. 1	no	12 Week
			Sept. 22—Dec. 8	no	11 Week
			Sept. 22—Dec. 15	no	10 Week
35-40°	Sept. 29	Oct. 20	Sept. 29—Dec. 1	no	12 Week
			Sept. 29—Dec. 8	no	11 Week
			Sept. 29—Dec. 15	no	10 Week
30-35°	Oct. 13	Nov. 3	Oct. 13—Dec. 1	no	12 Week
			Oct. 13—Dec. 8	no	11 Week
			Oct. 13—Dec. 15	no	10 Week
25-30°	Oct. 20	Nov. 10	Oct. 20—Dec. 8	no	11 Week
			Oct. 20—Dec. 15	no	10 Week

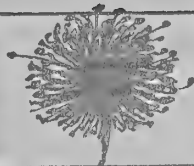
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	13 Week	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b>	<b>Chaffanooga</b>	<b>Marketeer</b>	<b>Crystal Queen</b> <b>Imp. Ind. White</b> <b>Melo</b>
	<b>P</b> Acclaim Icecap Illini Alba Northwind Satellite Snowcrest Snowstorm		<b>Belray</b> <b>Carrara</b> <b>Paramount</b> <b>Sculpture</b> <b>Surfside</b>	<b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Whitetop</b> <b>Featherstop</b>
<b>YELLOW</b>	<b>S</b>	<b>Dk. Yel. Chaffan'ga</b> <b>Golden Pearson</b>	<b>Harvester</b>	<b>Cream Melo</b> <b>Gordon Wells</b> <b>Imp. Ind. Yellow</b> <b>Yellow Melo</b> <b>Yellow Queen</b>
	<b>P</b> Cinderella Coronation Corsair Dk. Yel. Satellite Golden Acclaim Yel. Snowcrest	<b>Omega</b> <b>Yellow Galaxy</b>	<b>Esquire</b> <b>Etude</b> <b>Pippin</b> <b>Lollipop</b> <b>Souvenir</b> <b>Yel. Sculpture</b>	<b>Heyday</b> <b>Yel. Beauregard</b> <b>Yel. Iceberg</b> <b>Yellow Igloo</b> <b>Yellow Shasta</b> <b>Yellowtop</b>
<b>BRONZE &amp; RED</b>	<b>S</b>	<b>Oak Leaf</b>	<b>Calvert's Gold</b> <b>Valentine</b>	<b>Ind. Bronze</b> <b>Copper Queen</b>
	<b>P</b> Christmas Star	<b>Crackerjack</b> <b>Galaxy</b> <b>Orange Galaxy</b>	<b>Br. Jubilation</b> <b>Thelma</b>	<b>Beauregard</b> <b>Bronzechip</b> <b>Br. Portrait</b>
<b>PINK</b>	<b>S</b>			<b>Ind. Pink</b> <b>Orchid Queen</b>
	<b>P</b> Debutante Eminence Pink Snowdrop	<b>Delmar</b>	<b>Almega</b> <b>Celebrity</b> <b>Jubilation</b> <b>Rhythm</b> <b>Staccato</b>	<b>Pennant</b> <b>Portrait</b> <b>Profile</b> <b>Bluechip</b>

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM MARCH 2, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Sept. 29	Oct. 20	Sept. 29—Dec. 1	no	13 Week
			Sept. 29—Dec. 8	no	12 Week
			Sept. 29—Dec. 15	no	11 Week
			Sept. 29—Dec. 22	no	10 Week
35-40°	Oct. 13	Nov. 3	Oct. 13—Dec. 8	no	12 Week
			Oct. 13—Dec. 15	no	11 Week
			Oct. 13—Dec. 22	no	10 Week
30-35°	Oct. 20	Nov. 10	Oct. 20—Dec. 8	no	12 Week
			Oct. 20—Dec. 15	no	11 Week
			Oct. 20—Dec. 22	no	10 Week
25-30°	Oct. 27	Nov. 17	Oct. 27—Dec. 15	no	11 Week
			Oct. 27—Dec. 22	no	10 Week

\*For No Pinch Method: Plant and Light on Pinch Date

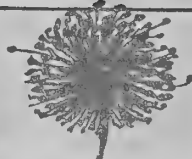
### VARIETIES IN RESPONSE GROUPS

	13 Week	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b>	<b>Chaffanooga</b>	<b>Marketeer</b>	<b>Crystal Queen</b> <b>Imp. Ind. White</b> <b>Melo</b>
	<b>P</b> Acclaim Icecap Illini Alba Northwind Satellite Snowcrest Snowstorm		<b>Belray</b> <b>Carrara</b> <b>Paramount</b> <b>Sculpture</b> <b>Surfside</b>	<b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Whitetop</b> <b>Feathertop</b>
<b>YELLOW</b>	<b>S</b>	<b>Dk. Yel. Chaffan'ga</b> <b>Golden Pearson</b>	<b>Harvester</b>	<b>Cream Melo</b> <b>Gordon Wells</b> <b>Imp. Ind. Yellow</b> <b>Yellow Melo</b> <b>Yellow Queen</b>
	<b>P</b> Cinderella Coronation Corsair Dk. Yel. Satellite Golden Acclaim Yellow Snowcrest	<b>Omega</b> <b>Yellow Galaxy</b>	<b>Esquire</b> <b>Etude</b> <b>Pippin</b> <b>Lollipop</b> <b>Souvenir</b> <b>Yel. Sculpture</b>	<b>Heyday</b> <b>Yel. Beauregard</b> <b>Yel. Iceberg</b> <b>Yellow Igloo</b> <b>Yellow Shasta</b> <b>Yellowtop</b>
<b>BRONZE &amp; RED</b>	<b>S</b>	<b>Oak Leaf</b>	<b>Calvert's Gold</b> <b>Valentine</b>	<b>Ind. Bronze</b> <b>Copper Queen</b>
	<b>P</b> Christmas Star	<b>Crackerjack</b> <b>Galaxy</b> <b>Orange Galaxy</b>	<b>Br. Jubilation</b> <b>Thelma</b>	<b>Beauregard</b> <b>Bronzechip</b> <b>Br. Portrait</b>
<b>PINK</b>	<b>S</b>			<b>Ind. Pink</b> <b>Orchid Queen</b>
	<b>P</b> Debutante Eminence Pink Snowdrop	<b>Delmar</b>	<b>Almega</b> <b>Celebrity</b> <b>Jubilation</b> <b>Rhythm</b> <b>Staccato</b>	<b>Pennant</b> <b>Portrait</b> <b>Profile</b> <b>Bluechip</b>

S—Standard

P—Pompon





# Year-Round Chrysanthemum Flowering Schedule

**BLOOM MARCH 9, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Oct. 6	Oct. 27	Oct. 6 —Dec. 8	no	13 Week
			Oct. 6 —Dec. 15	no	12 Week
			Oct. 6 —Dec. 22	no	11 Week
			Oct. 6 —Dec. 29	no	10 Week
35-40°	Oct. 20	Nov. 10	Oct. 20—Dec. 15	no	12 Week
			Oct. 20—Dec. 22	no	11 Week
			Oct. 20—Dec. 29	no	10 Week
30-35°	Oct. 27	Nov. 17	Oct. 27—Dec. 15	no	12 Week
			Oct. 27—Dec. 22	no	11 Week
			Oct. 27—Dec. 29	no	10 Week
25-30°	Nov. 3	Nov. 24	Nov. 3 —Dec. 22	no	11 Week
			Nov. 3 —Dec. 29	no	10 Week

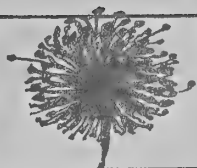
\*For No Pinch Method: Plant and Light on Pinch Date

## VARIETIES IN RESPONSE GROUPS

	13 Week	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b>	<b>Chattanooga</b>	<b>Marketeer</b>	<b>Crystal Queen</b> <b>Imp. Ind. White</b> <b>Mefo</b>
	<b>P</b> Acclaim Icecap Illini Alba Northwind Satellite Snowcrest Snowstorm		<b>Belray</b> <b>Carrara</b> <b>Paramount</b> <b>Sculpture</b> <b>Surfside</b>	<b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Whitetop</b> <b>Featherstop</b>
<b>YELLOW</b>	<b>S</b>	<b>Dk. Yel. Chat'n'ga</b> <b>Golden Pearson</b>	<b>Harvester</b>	<b>Cream Mefo</b> <b>Gordon Wells</b> <b>Imp. Ind. Yellow</b> <b>Yellow Mefo</b> <b>Yel. Queen</b>
	<b>P</b> Cinderella Coronation Corsair Dk. Yel. Satellite Golden Acclaim Yel. Snowcrest	<b>Omega</b> <b>Yellow Galaxy</b>	<b>Esquire</b> <b>Etude</b> <b>Pippin</b> <b>Lollipop</b> <b>Souvenir</b> <b>Yel. Sculpture</b>	<b>Heyday</b> <b>Yel. Beauregard</b> <b>Yel. Iceberg</b> <b>Yellow Igloo</b> <b>Yellow Shasta</b> <b>Yellowtop</b>
<b>BRONZE &amp; RED</b>	<b>S</b>	<b>Oak Leaf</b>	<b>Calvert's Gold</b> <b>Valentine</b>	<b>Ind. Bronze</b> <b>Copper Queen</b>
	<b>P</b> Christmas Star	<b>Crackerjack</b> <b>Galaxy</b> <b>Orange Galaxy</b>	<b>Br. Jubilation</b> <b>Thelma</b>	<b>Beauregard</b> <b>Bronzechip</b> <b>Br. Portrait</b>
<b>PINK</b>	<b>S</b>			<b>Ind. Pink</b> <b>Orchid Queen</b>
	<b>P</b> Debutante Eminence Pink Snowdrop	<b>Delmar</b>	<b>Almega</b> <b>Celebrity</b> <b>Jubilation</b> <b>Rhythm</b> <b>Staccato</b>	<b>Pennant</b> <b>Portrait</b> <b>Profile</b> <b>Bluechip</b>

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM MARCH 16, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Oct. 13	Nov. 3	Oct. 13—Dec. 22	no	12 Week
			Oct. 13—Dec. 29	no	11 Week
			Oct. 13—Jan. 5	no	10 Week
35-40°	Oct. 27	Nov. 17	Oct. 27—Dec. 22	no	12 Week
			Oct. 27—Dec. 29	no	11 Week
			Oct. 27—Jan. 5	no	10 Week
30-35°	Nov. 3	Nov. 24	Nov. 3 —Dec. 29	no	11 Week
			Nov. 3 —Jan. 5	no	10 Week
25-30°	Nov. 17	Dec. 8	Nov. 17—Dec. 29	no	11 Week
			Nov. 17—Jan. 5	no	10 Week

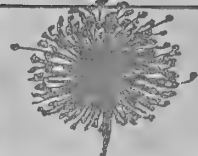
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b> <b>Chattanooga</b>	<b>Marketeer</b>	<b>Crystal Queen</b> <b>Fred Shoemith</b> <b>Imp. Ind. White</b> <b>Melo</b>
	<b>P</b> <b>Illini Glacier</b>	<b>Belray</b> <b>Paramount</b> <b>Sculpture</b> <b>Surfside</b>	<b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Whitetop</b> <b>Feathertop</b>
<b>YELLOW</b>	<b>S</b> <b>Dk. Yel. Chat'n'ga</b> <b>Golden Pearson</b>	<b>Harvester</b>	<b>Cream Melo</b> <b>Golden Shoemith</b> <b>Gordon Wells</b> <b>Imp. Ind. Yellow</b> <b>Yellow Melo</b> <b>Yellow Queen</b>
	<b>P</b> <b>Illini Wampum</b> <b>Omega</b> <b>Yellow Galaxy</b>	<b>Esquire</b> <b>Etude</b> <b>Pippin</b> <b>Lollipop</b> <b>Souvenir</b> <b>Yel. Sculpture</b>	<b>Heyday</b> <b>Yel. Beauregard</b> <b>Yel. Iceberg</b> <b>Yellow Igloo</b> <b>Yellow Shasta</b> <b>Yellowtop</b>
<b>BRONZE &amp; RED</b>	<b>S</b> <b>Oak Leaf</b>	<b>Calvert's Gold</b> <b>Valentine</b>	<b>Ind. Bronze</b> <b>Copper Queen</b>
	<b>P</b> <b>Crackerjack</b> <b>Galaxy</b> <b>Orange Galaxy</b>	<b>Br. Jubilation</b> <b>Ranger</b> <b>Thelma</b>	<b>Beauregard</b> <b>Bronzechip</b> <b>Br. Portrait</b>
<b>PINK</b>	<b>S</b>		<b>Ind. Pink</b> <b>Laughter</b> <b>Orchid Queen</b>
	<b>P</b> <b>Delmar</b> <b>Illini Roseglow</b>	<b>Almega</b> <b>Celebrity</b> <b>Jubilation</b> <b>Rhythm</b> <b>Staccato</b>	<b>Bluechip</b> <b>Bonnie</b> <b>Portrait</b> <b>Profile</b>

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## Year-Round Chrysanthemum Flowering Schedule

**BLOOM MARCH 23, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Oct. 20	Nov. 10	Oct. 20—Dec. 29	no	12 Week
			Oct. 20—Jan. 5	no	11 Week
			Oct. 20—Jan. 12	no	10 Week
35-40°	Nov. 3	Nov. 24	Nov. 3 —Jan. 5	no	11 Week
			Nov. 3 —Jan. 12	no	10 Week
30-35°	Nov. 10	Dec. 1	Nov. 10—Jan. 5	no	11 Week
			Nov. 10—Jan. 12	no	10 Week
25-30°	Nov. 24	Dec. 15	Nov. 24—Jan. 5	no	11 Week
			Nov. 24—Jan. 12	no	10 Week

\*For No Pinch Method: Plant and Light on Pinch Date

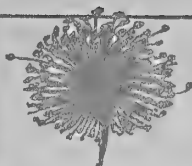
### VARIETIES IN RESPONSE GROUPS

		12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b>	<b>Chattanooga</b>	<b>Marketeer</b>	<b>Crystal Queen</b> <b>Fred Shoemith</b> <b>Imp. Ind. White</b> <b>Mefo</b>
	<b>P</b>	<b>Illini Glacier</b>	<b>Belray</b> <b>Paramount</b> <b>Sculpture</b> <b>Surfside</b>	<b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Whitetop</b> <b>Feathertop</b>
<b>YELLOW</b>	<b>S</b>	<b>Dk. Yel. Chat'n'ga</b> <b>Golden Pearson</b>	<b>Harvester</b>	<b>Cream Mefo</b> <b>Golden Shoemith</b> <b>Gordon Wells</b> <b>Imp. Ind. Yellow</b> <b>Yellow Mefo</b> <b>Yellow Queen</b>
	<b>P</b>	<b>Illini Wampum</b> <b>Omega</b> <b>Yellow Galaxy</b>	<b>Esquire</b> <b>Etude</b> <b>Pippin</b> <b>Lollipop</b> <b>Souvenir</b> <b>Yel. Sculpture</b>	<b>Heyday</b> <b>Yel. Beauregard</b> <b>Yel. Iceberg</b> <b>Yellow Igloo</b> <b>Yellow Shasta</b> <b>Yellowtop</b>
<b>BRONZE &amp; RED</b>	<b>S</b>	<b>Oak Leaf</b>	<b>Calvert's Gold</b> <b>Valentine</b>	<b>Ind. Bronze</b> <b>Copper Queen</b>
	<b>P</b>	<b>Crackerjack</b> <b>Galaxy</b> <b>Orange Galaxy</b>	<b>Br. Jubilation</b> <b>Ranger</b> <b>Thelma</b>	<b>Beauregard</b> <b>Bronzechip</b> <b>Br. Portrait</b>
<b>PINK</b>	<b>S</b>			<b>Ind. Pink</b> <b>Laughter</b> <b>Orchid Queen</b>
	<b>P</b>	<b>Delmar</b> <b>Illini Roseglow</b>	<b>Almega</b> <b>Celebrity</b> <b>Jubilation</b> <b>Rhythm</b> <b>Staccato</b>	<b>Bluechip</b> <b>Bonnie</b> <b>Portrait</b> <b>Profile</b>

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## Year-Round Chrysanthemum Flowering Schedule

**BLOOM MARCH 30, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Nov. 3	Nov. 24	Nov. 3 —Jan. 12	no	11 Week
			Nov. 3 —Jan. 19	no	10 Week
35-40°	Nov. 10	Dec. 1	Nov. 10—Jan. 12	no	11 Week
			Nov. 10—Jan. 19	no	10 Week
30-35°	Nov. 24	Dec. 15	Nov. 24—Jan. 12	no	11 Week
			Nov. 24—Jan. 19	no	10 Week
25-30°	Dec. 1	Dec. 22	Dec. 1 —Jan. 19	no	10 Week
			Dec. 1 —Jan. 26	no	9 Week
			Dec. 1 —Feb. 2	no	8 Week

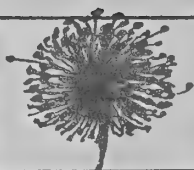
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		11 Week	10 Week	9 Week	8 Week
<b>WHITE</b>	<b>S</b>	<b>Marketeer</b>	<b>Crystal Queen</b> <b>Fred Shoesmith</b> <b>Mefo</b>	<b>Ind. White</b> <b>Queen's Lace</b>	
	<b>P</b>	<b>Belray</b> <b>Paramount</b> <b>Sculpture</b> <b>Surfside</b> <b>White Taffeta</b>	<b>Iceberg</b> <b>Illini Igloo</b> <b>Illini Snowdrift</b> <b>Pacesetter</b> <b>Shasta</b> <b>Stardust</b> <b>Whitetop</b>	<b>White Keepsake</b> <b>Alaska</b> <b>Silver Cloud</b> <b>Halo</b>	<b>Pristine</b> <b>Silvertone</b>
<b>YELLOW</b>	<b>S</b>	<b>Harvester</b>	<b>Cream Mefo</b> <b>Golden Shoesmith</b> <b>Gordon Wells</b> <b>Yellow Mefo</b> <b>Yellow Queen</b>	<b>Gold Lace</b> <b>Good News</b> <b>Imp. Ind. Yellow</b> <b>Luyona</b>	<b>Blazing Gold</b>
	<b>P</b>	<b>Esquire</b> <b>Etude</b> <b>Lollipop</b> <b>Pippin</b> <b>Souvenir</b> <b>Yel. Sculpture</b> <b>Yel. Paramount</b>	<b>Heyday</b> <b>Yel. Beauregard</b> <b>Yel. Iceberg</b> <b>Yellow Igloo</b> <b>Yel. Ill. Snowdrift</b> <b>Yellow Shasta</b> <b>Yellowtop</b>	<b>Gold Coast</b> <b>Golden Herald</b> <b>Starbright</b> <b>Starlight</b>	
<b>BRONZE &amp; RED</b>	<b>S</b>	<b>Calvert's Gold</b> <b>Valentine</b>	<b>Copper Queen</b> <b>Nomago</b>	<b>Dk. Ind. Bronze</b> <b>Detroit News</b>	
	<b>P</b>	<b>Br. Jubilation</b> <b>Ranger</b> <b>Thelma</b> <b>Olnura</b>	<b>Beauregard</b> <b>Br. Masterpiece</b> <b>Br. Portrait</b> <b>Climax</b>	<b>Bronzechip</b> <b>Buckskin</b> <b>Gaiety</b> <b>Wagonwheels</b>	<b>Paradise</b> <b>Resolute</b> <b>Talisman</b>
<b>PINK</b>	<b>S</b>		<b>Dk. Orchid Queen</b> <b>Laughter</b> <b>Merriment</b>	<b>Bunbu</b> <b>Ind. Pink</b>	
	<b>P</b>	<b>Almega</b> <b>Celebrity</b> <b>Jubilation</b> <b>Rhythm</b> <b>Staccato</b>	<b>Bonnie</b> <b>Pennant</b> <b>Profile</b> <b>Portrait</b> <b>Delight</b>	<b>Bluechip</b> <b>Reveille</b>	<b>Mirih</b>

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# Year-Round Chrysanthemum Flowering Schedule

**BLOOM APRIL 6, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Nov. 10	Dec. 1	Nov. 10—Jan. 19 Nov. 10—Jan. 26	no no	11 Week 10 Week
35-40°	Nov. 17	Dec. 8	Nov. 17—Jan. 19 Nov. 17—Jan. 26	no no	11 Week 10 Week
30-35°	Dec. 1	Dec. 29	Dec. 1 —Jan. 19 Dec. 1 —Jan. 26 Dec. 1 —Feb. 2	no no no	11 Week 10 Week 9 Week
25-30°	Dec. 8	Dec. 29	Dec. 8 —Jan. 26 Dec. 8 —Feb. 2 Dec. 8 —Feb. 9	no no no	10 Week 9 Week 8 Week

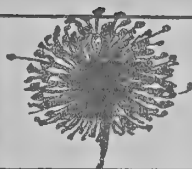
\*For No Pinch Method: Plant and Light on Pinch Date

## VARIETIES IN RESPONSE GROUPS

	11 Week	10 Week	9 Week	8 Week
<b>WHITE</b>	<b>S</b> <b>Marketeer</b>	<b>Crystal Queen</b> <b>Fred Shoemith</b> <b>Melo</b>	<b>Ind. White</b> <b>Queen's Lace</b>	
	<b>P</b> <b>Belray</b> <b>Paramount</b> <b>Sculpture</b> <b>Surfside</b> <b>White Taffeta</b>	<b>Iceberg</b> <b>Illini Igloo</b> <b>Illini Snowdrift</b> <b>Pacesetter</b> <b>Shasta</b> <b>Stardust</b> <b>Whitetop</b>	<b>White Keepsake</b> <b>Alaska</b> <b>Silver Cloud</b> <b>Halo</b>	<b>Pristine</b> <b>Silvertone</b>
<b>YELLOW</b>	<b>S</b> <b>Harvester</b>	<b>Cream Melo</b> <b>Golden Shoemith</b> <b>Gordon Wells</b> <b>Yellow Melo</b> <b>Yellow Queen</b>	<b>Gold Lace</b> <b>Good News</b> <b>Imp. Ind. Yellow</b> <b>Luyona</b>	<b>Blazing Gold</b>
	<b>P</b> <b>Esquire</b> <b>Etude</b> <b>Lollipop</b> <b>Pippin</b> <b>Souvenir</b> <b>Yel. Sculpture</b> <b>Yel. Paramount</b>	<b>Heyday</b> <b>Yel. Beauregard</b> <b>Yel. Iceberg</b> <b>Yellow Igloo</b> <b>Yel. Ill. Snowdrift</b> <b>Yellow Shasta</b> <b>Yellowtop</b>	<b>Gold Coast</b> <b>Golden Herald</b> <b>Starbright</b> <b>Starlight</b>	
<b>BRONZE &amp; RED</b>	<b>S</b> <b>Calvert's Gold</b> <b>Valentine</b>	<b>Copper Queen</b> <b>Nomago</b>	<b>Dk. Ind. Bronze</b> <b>Detroit News</b>	
	<b>P</b> <b>Br. Jubilation</b> <b>Ranger</b> <b>Thelma</b> <b>Olnura</b>	<b>Beauregard</b> <b>Br. Masterpiece</b> <b>Br. Portrait</b> <b>Climax</b>	<b>Bronzechip</b> <b>Buckskin</b> <b>Gaiety</b> <b>Wagonwheels</b>	<b>Paradise</b> <b>Resolute</b> <b>Talisman</b>
<b>PINK</b>	<b>S</b>	<b>Dk. Orchid Queen</b> <b>Laughter</b> <b>Merriment</b>	<b>Bunbu</b> <b>Ind. Pink</b>	
	<b>P</b> <b>Almega</b> <b>Celebrity</b> <b>Jubilation</b> <b>Rhythm</b> <b>Staccata</b>	<b>Bonnie</b> <b>Pennant</b> <b>Profile</b> <b>Portrait</b> <b>Delight</b>	<b>Bluechip</b> <b>Reveille</b>	<b>Mirth</b>

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM APRIL 13, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Nov. 17	Dec. 15	Nov. 17—Jan. 26	Mar. 9	11 Week
			Nov. 17—Feb. 2	Mar. 16	10 Week
			Nov. 17—Feb. 9	Mar. 23	9 Week
35-40°	Dec. 1	Dec. 29	Dec. 1 —Jan. 26	Mar. 9	11 Week
			Dec. 1 —Feb. 2	Mar. 16	10 Week
			Dec. 1 —Feb. 9	Mar. 23	9 Week
30-35°	Dec. 8	Jan. 5	Dec. 8 —Feb. 2	Mar. 16	10 Week
			Dec. 8 —Feb. 9	Mar. 23	9 Week
			Dec. 8 —Feb. 16	Mar. 30	8 Week
25-30°	Dec. 22	Jan. 12	Dec. 22—Feb. 2	Mar. 9	10 Week
			Dec. 22—Feb. 9	no	9 Week
			Dec. 22—Feb. 16	no	8 Week

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		11 Week	10 Week	9 Week	8 Week
WHITE	S	Marketeer	Crystal Queen Fred Shoesmith Mefo	Ind. White Queen's Lace	
	P	Belray Paramount Sculpture Surfside White Taffeta	Iceberg Illini Igloo Illini Snowdrift Pacesetter Shasta Stardust Whitotop	White Keepsake Alaska Silver Cloud Halo	Pristine Silvertone
YELLOW	S	Harvester	Cream Mefo Golden Shoesmith Gordon Wells Yellow Mefo Yellow Queen	Gold Lace Good News Imp. Ind. Yellow Luyona	Blazing Gold
	P	Esquire Etude Lollipop Pippin Souvenir Yel. Sculpture Yel. Paramount	Heyday Yel. Beauregard Yel. Iceberg Yellow Igloo Yel. Ill. Snowdrift Yellow Shasta Yellowtop	Gold Coast Golden Herald Starbright Starlight	
BRONZE & RED	S	Calvert's Gold Valentine	Copper Queen Nomago	Dk. Ind. Bronze Detroit News	
	P	Br. Jubilation Ranger Thelma Olnura	Beauregard Br. Masterpiece Br. Portrait Climax	Bronzechip Buckskin Gaiety Wagonwheels	Paradise Resolute Talisman
PINK	S		Dk. Orchid Queen Laughter Merriment	Bunbu Ind. Pink	
	P	Almega Celebrity Jubilation Rhythm Staccato	Bonnie Pennant Profile Portrait Delight	Bluechip Reveille	Mirth

S—Standard

P—Pompon





## Year-Round Chrysanthemum Flowering Schedule

**BLOOM APRIL 20, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Nov. 24	Dec. 22	Nov. 24—Feb. 2 Nov. 24—Feb. 9 Nov. 24—Feb. 16	Mar. 9 Mar. 16 Mar. 23	11 Week 10 Week 9 Week
35-40°	Dec. 8	Jan. 5	Dec. 8—Feb. 2 Dec. 8—Feb. 9 Dec. 8—Feb. 16	Mar. 9 Mar. 16 Mar. 23	11 Week 10 Week 9 Week
30-35°	Dec. 15	Jan. 12	Dec. 15—Feb. 9 Dec. 15—Feb. 16 Dec. 15—Feb. 23	Mar. 16 Mar. 23 no	10 Week 9 Week 8 Week
25-30°	Dec. 29	Jan. 19	Dec. 29—Feb. 9 Dec. 29—Feb. 16 Dec. 29—Feb. 23	Mar. 16 Mar. 23 no	10 Week 9 Week 8 Week

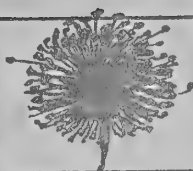
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	11 Week	10 Week	9 Week	8 Week
<b>WHITE</b>	<b>S</b> <b>Marketeer</b>	<b>Crystal Queen</b> <b>Fred Shoemith</b> <b>Mefo</b>	<b>Ind. White</b> <b>Queen's Lace</b>	
	<b>P</b> <b>Belray</b> <b>Paramount</b> <b>Sculpture</b> <b>White Taffeta</b> <b>Surfside</b>	<b>Iceberg</b> <b>Illini Igloo</b> <b>Illini Snowdrift</b> <b>Pacesetter</b> <b>Shasta</b> <b>Stardust</b> <b>Whitotop</b>	<b>White Keepsake</b> <b>Alaska</b> <b>Silver Cloud</b> <b>Halo</b>	<b>Pristine</b> <b>Silvertone</b>
<b>YELLOW</b>	<b>S</b> <b>Harvester</b>	<b>Cream Mefo</b> <b>Golden Shoemith</b> <b>Gordon Wells</b> <b>Yellow Mefo</b> <b>Yellow Queen</b>	<b>Gold Lace</b> <b>Good News</b> <b>Imp. Ind. Yellow</b> <b>Luyona</b>	<b>Blazing Gold</b>
	<b>P</b> <b>Esquire</b> <b>Etude</b> <b>Lollipop</b> <b>Pippin</b> <b>Souvenir</b> <b>Yel. Sculpture</b> <b>Yel. Paramount</b>	<b>Heyday</b> <b>Yel. Beauregard</b> <b>Yel. Iceberg</b> <b>Yellow Igloo</b> <b>Yel. Ill. Snowdrift</b> <b>Yellow Shasta</b> <b>Yellowtop</b>	<b>Gold Coast</b> <b>Golden Herald</b> <b>Starbright</b> <b>Starlight</b>	
<b>BRONZE &amp; RED</b>	<b>S</b> <b>Calvert's Gold</b> <b>Valentine</b>	<b>Copper Queen</b> <b>Nomago</b>	<b>Dk. Ind. Bronze</b> <b>Detroit News</b>	
	<b>P</b> <b>Br. Jubilation</b> <b>Ranger</b> <b>Thelma</b> <b>Olnura</b>	<b>Beauregard</b> <b>Br. Masterpiece</b> <b>Br. Portrait</b> <b>Climax</b>	<b>Bronzechip</b> <b>Buckskin</b> <b>Gaiety</b> <b>Wagonwheels</b>	<b>Paradise</b> <b>Resolute</b> <b>Talisman</b>
<b>PINK</b>	<b>S</b>	<b>Dk. Orchid Queen</b> <b>Laughter</b> <b>Merriment</b>	<b>Bunbu</b> <b>Ind. Pink</b>	
	<b>P</b> <b>Almega</b> <b>Celebrity</b> <b>Jubilation</b> <b>Rhythm</b> <b>Staccato</b>	<b>Bonnie</b> <b>Pennant</b> <b>Profile</b> <b>Portrait</b> <b>Delight</b>	<b>Bluechip</b> <b>Reveille</b>	<b>Mirth</b>

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## Year-Round Chrysanthemum Flowering Schedule

**BLOOM APRIL 27, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Dec. 8	Jan. 5	Dec. 8 —Feb. 16	Mar. 16	10 Week
			Dec. 8 —Feb. 23	Mar. 23	9 Week
			Dec. 8 —Mar. 2	Mar. 30	8 Week
35-40°	Dec. 15	Jan. 12	Dec. 15—Feb. 16	Mar. 16	10 Week
			Dec. 15—Feb. 23	Mar. 23	9 Week
			Dec. 15—Mar. 2	Mar. 30	8 Week
30-35°	Dec. 22	Jan. 19	Dec. 22—Feb. 16	Mar. 16	10 Week
			Dec. 22—Feb. 23	Mar. 23	9 Week
			Dec. 22—Mar. 2	Mar. 30	8 Week
25-30°	Jan. 5	Jan. 26	Jan. 5 —Feb. 16	Mar. 16	10 Week
			Jan. 5 —Feb. 23	Mar. 23	9 Week
			Jan. 5 —Mar. 2	Mar. 30	8 Week

\*For No Pinch Method: Plant and Light on Pinch Date

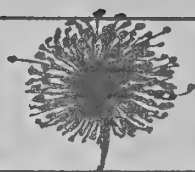
### VARIETIES IN RESPONSE GROUPS

		10 Week	9 Week	8 Week
WHITE	S	<b>Crystal Queen</b> <b>Fred Shoemith</b> <b>Melo</b>	<b>Ind. White</b> <b>Marblehead</b> <b>Queen's Lace</b>	<b>Silver Sheen</b> <b>Wh. Pink Chief</b>
	P	<b>Iceberg</b> <b>Illini Igloo</b> <b>Illini Snowdrift</b> <b>Pacesetter</b> <b>Shasla</b> <b>Stardust</b> <b>Whitetop</b>	<b>Alaska</b> <b>Crystalite</b> <b>Halo</b> <b>Keepsake</b> <b>Memento</b> <b>Pinocchio</b> <b>Silver Cloud</b> <b>Thistledown</b> <b>White Keepsake</b> <b>White Popcorn</b>	<b>Blizzard</b> <b>Echo</b> <b>Pristine</b> <b>Silvertone</b>
YELLOW	S	<b>Cream Melo</b> <b>Golden Shoemith</b> <b>Gordon Wells</b> <b>Yellow Melo</b> <b>Yellow Queen</b>	<b>Brighton Yellow</b> <b>Gold Lace</b> <b>Good News</b> <b>Imp. Ind. Yellow</b> <b>Luyona</b>	<b>Blazing Gold</b>
	P	<b>Azttec</b> <b>Heyday</b> <b>Mary Hall</b> <b>Jealousy</b> <b>Luxury</b> <b>Sunfire</b> <b>Yel. Beauregard</b> <b>Yel. Iceberg</b> <b>Yellow Igloo</b> <b>Yel. Ill. Snowdrift</b> <b>Yellow Shasta</b> <b>Yellowtop</b>	<b>Brilliancy</b> <b>Dandy</b> <b>Gondola</b> <b>Happiness</b> <b>Golden Herald</b> <b>Gold Coast</b> <b>Honeymoon</b> <b>Sauterne</b> <b>Starlight</b> <b>Statesman</b> <b>Sunup</b> <b>Yellow Halo</b>	<b>Sungold</b>
BRONZE & RED	S	<b>Copper Queen</b> <b>Mrs. Roy</b> <b>Nomago</b>	<b>Dk. Ind. Bronze</b> <b>Detroit News</b> <b>Fred Yule</b>	
	P	<b>Beauregard</b> <b>Climax</b> <b>Br. Portrait</b> <b>Amberhue</b> <b>Jeffire</b> <b>Rubicon</b>	<b>Bronzechip</b> <b>Buckskin</b> <b>Gaiety</b> <b>Salmonchip</b> <b>Wagonwheels</b>	<b>Calumet</b> <b>Paradise</b> <b>Resolute</b> <b>Talisman</b>
PINK	S	<b>Lavender Queen</b> <b>Laughter</b> <b>Merriment</b>	<b>Bunbu</b> <b>Ind. Pink</b> <b>Mary Garden</b>	
	P	<b>Bonnie</b> <b>Delight</b> <b>Pennant</b> <b>Profile</b> <b>Portrait</b>	<b>Bluechip</b> <b>Cheerful</b> <b>Handsome</b> <b>Pinkette</b> <b>Vogue</b>	<b>Enterprise</b> <b>Mayfair</b> <b>Mirih</b>

S—Standard

P—Pompon





## Year-Round Chrysanthemum Flowering Schedule

**BLOOM MAY 4, 1959**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Dec. 15	Jan. 12	Dec. 15—Feb. 23	Mar. 16	10 Week
			Dec. 15—Mar. 2	Mar. 23	9 Week
			Dec. 15—Mar. 9	Mar. 30	8 Week
35-40°	Dec. 22	Jan. 19	Dec. 22—Feb. 23	Mar. 16	10 Week
			Dec. 22—Mar. 2	Mar. 23	9 Week
			Dec. 22—Mar. 9	Mar. 30	8 Week
25-35°	Jan. 12	Feb. 2	Jan. 12—Feb. 23	Mar. 16	10 Week
			Jan. 12—Mar. 2	Mar. 23	9 Week
			Jan. 12—Mar. 9	Mar. 30	8 Week
<b>BLOOM MAY 11, 1959</b>					
40-45°	Dec. 29	Jan. 26	Dec. 29—Mar. 2	Mar. 16	10 Week
			Dec. 29—Mar. 9	Mar. 23	9 Week
			Dec. 29—Mar. 16	Mar. 30	8 Week
35-40°	Jan. 5	Feb. 2	Jan. 5 —Mar. 2	Mar. 16	10 Week
			Jan. 5 —Mar. 9	Mar. 23	9 Week
			Jan. 5 —Mar. 16	Mar. 30	8 Week
25-35°	Jan. 19	Feb. 9	Jan. 19—Mar. 2	Mar. 16	10 Week
			Jan. 19—Mar. 9	Mar. 23	9 Week
			Jan. 19—Mar. 16	Mar. 30	8 Week

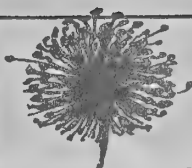
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	10 Week	9 Week	8 Week
<b>WHITE</b>	<b>S</b> Crystal Queen Fred Shoemith Mefo	Marblehead Queen's Lace Ind. White	Silver Sheen Wh. Pink Chief
	<b>P</b> Iceberg Illini Igloo Illini Snowdrift Pacesetter Shasta Stardust Whitetop	Alaska Crystalite Halo Keepsake Memento Pinocchio Silver Cloud Thistledown White Keepsake White Popcorn	Blizzard Echo Pristine Silvertone
<b>YELLOW</b>	<b>S</b> Cream Mefo Golden Shoemith Gordon Wells Yellow Mefo Yellow Queen	Brighton Yellow Gold Lace Good News Imp. Ind. Yellow Luyona	Blazing Gold
	<b>P</b> Aztec Heyday Mary Hall Jealousy Luxury Sunfire Yel. Beauregard Yel. Iceberg Yellow Igloo Yel. Ill. Snowdrift Yellow Shasta Yellowtop	Brilliance Dandy Gondola Happiness Golden Herald Gold Coast Honeymoon Sauterne Starlight Statesman Sunup Yellow Halo	Sungold
<b>BRONZE &amp; RED</b>	<b>S</b> Copper Queen Mrs. Roy Nomago	Dk. Ind. Bronze Detroit News Fred Yule	
	<b>P</b> Beauregard Climax Br. Portrait Amberhue Jeffire Rubicon	Bronzechip Buckskin Gaiety Salmonchip Wagonwheels	Calumet Paradise Resolute Talisman
<b>PINK</b>	<b>S</b> Lavender Queen Laughter Merriment	Bunbu Ind. Pink Mary Garden	
	<b>P</b> Bonnie Delight Pennant Profile Portrait	Bluechip Cheerful Handsome Pinkette Vogue	Enterprise Mayfair Mirth

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM MAY 19, 1958**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Jan. 6	Feb. 3	Jan. 6 —Mar. 10	Mar. 17	10 Week
			Jan. 6 —Mar. 17	Mar. 24	9 Week
			Jan. 6 —Mar. 24	Mar. 31	8 Week
35-40°	Jan. 13	Feb. 10	Jan. 13—Mar. 10	Mar. 17	10 Week
			Jan. 13—Mar. 17	Mar. 24	9 Week
			Jan. 13—Mar. 24	Mar. 31	8 Week
25-35°	Jan. 27	Feb. 17	Jan. 27—Mar. 10	Mar. 17	10 Week
			Jan. 27—Mar. 17	Mar. 24	9 Week
			Jan. 27—Mar. 24	Mar. 31	8 Week

**BLOOM MAY 26, 1958**

40-45°	Jan. 20	Feb. 17	Jan. 20—Mar. 17	Mar. 17	10 Week
			Jan. 20—Mar. 24	Mar. 24	9 Week
			Jan. 20—Mar. 31	Mar. 31	8 Week
25-40°	Feb. 3	Feb. 24	Feb. 3 —Mar. 17	Mar. 17	10 Week
			Feb. 3 —Mar. 24	Mar. 24	9 Week
			Feb. 3 —Mar. 31	Mar. 31	8 Week

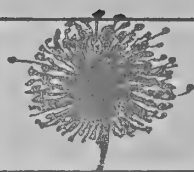
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	10 Week	9 Week	8 Week
<b>WHITE</b>	<b>S</b> Crystal Queen Fred Shoemith Mefo	Ind. White Marblehead Queen's Lace	Silver Sheen Wh. Pink Chief
	<b>P</b> Feathertop Iceberg Illini Igloo Illini Snowdrift Pacesetter Shasta Whitetop	Alaska Halo Keepsake Memento Pinocchio Silver Cloud Vesta White Keepsake White Popcorn	Blizzard Pristine Silvertone
<b>YELLOW</b>	<b>S</b> Cream Mefo Gordon Wells Yellow Mefo Yellow Queen	Gold Lace Good News Imp. Ind. Yellow Luyona	Blazing Gold
	<b>P</b> Aztec Heyday Mary Hall Jealousy Luxury Yel. Beauregard Yel. Iceberg Yellow Igloo Yellow Shasta Yellowtop	Dandy Golden Herald Gold Coast Gondola Happiness Honeymoon Sauterne Starbright Starlight Statesman Sunup Yellow Halo	
<b>BRONZE &amp; RED</b>	<b>S</b> Copper Queen Mrs. Roy	Dk. Ind. Bronze Detroit News Fred Yule	
	<b>P</b> Beauregard Climax Jeffire Rubicon	Bronzechip Buckskin Gaiety	Calumet Paradise Talisman
<b>PINK</b>	<b>S</b> Lavender Queen Laughter Merriment	Ind. Pink Mary Garden	
	<b>P</b> Bonnie Delight Pennant Portrait	Bluechip Pink Dot Pinkette Reward Tempo Vogue	Mirth

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

### BLOOM JUNE 2, 1958

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Feb. 3	Mar. 3	Feb. 3 —Mar. 24 Feb. 3 —Mar. 31 Feb. 3 —Apr. 7	Mar. 24 Mar. 31 Apr. 7	10 Week 9 Week 8 Week
25-40°	Feb. 10	Mar. 3	Feb. 10—Mar. 24 Feb. 10—Mar. 31 Feb. 10—Apr. 7	Mar. 24 Mar. 31 Apr. 7	10 Week 9 Week 8 Week

### BLOOM JUNE 9, 1958

25-45°	Feb. 17	Mar. 10	Feb. 17—Mar. 31 Feb. 17—Apr. 7 Feb. 17—Apr. 14	Mar. 31 Apr. 7 Apr. 14	10 Week 9 Week 8 Week
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### BLOOM JUNE 16, 1958

25-45°	Feb. 24	Mar. 17	Feb. 24—Apr. 7 Feb. 24—Apr. 14 Feb. 24—Apr. 21	Apr. 7 Apr. 14 Apr. 21	10 Week 9 Week 8 Week
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\*For No Pinch Method: Plant and Light on Pinch Date

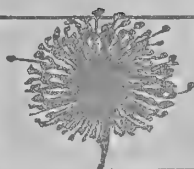
### VARIETIES IN RESPONSE GROUPS

	10 Week	9 Week	8 Week
<b>WHITE</b>	<b>S</b> Crystal Queen Fred Shoemith Mefo	Ind. White Marblehead Queen's Lace	Silver Sheen Wh. Pink Chief
	<b>P</b> Feathertop Iceberg Illini Igloo Illini Snowdrift Pacesetter Shasta Whitetop	Alaska Halo Keepsake Memento Pinocchio Silver Cloud Vesta White Keepsake White Popcorn	Blizzard Pristine Silvertone
<b>YELLOW</b>	<b>S</b> Cream Mefo Gordon Wells Yellow Mefo Yellow Queen	Gold Lace Good News Imp. Ind. Yellow Luyona	Blazing Gold
	<b>P</b> Aztec Heyday Mary Hall Jealousy Luxury Yel. Beauregard Yel. Iceberg Yel. Igloo Yel. Shasta Yellowtop	Dandy Golden Herald Gold Coast Gondola Happiness Honeymoon Sauterne Starbright Starlight Statesman Sunup Yellow Halo	
<b>BRONZE &amp; RED</b>	<b>S</b> Copper Queen Mrs. Roy	Dk. Ind. Bronze Detroit News Fred Yule	
	<b>P</b> Beauregard Climax Jetfire Rubicon	Bronzechip Buckskin Gaiety	Calumet Paradise Talisman
<b>PINK</b>	<b>S</b> Lavender Queen Laughter Merriment	Ind. Pink Mary Garden	
	<b>P</b> Bonnie Delight Pennant Portrait	Bluechip Pink Dot Pinkette Reward Tempo Vogue	Mirth

S—Standard

P—Pompon





## Year-Round Chrysanthemum Flowering Schedule

### BLOOM JUNE 23, 1958

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
25-45°	Mar. 3	Mar. 24	Mar. 3 —Apr. 14	Apr. 14	10 Week
			Mar. 3 —Apr. 21	Apr. 21	9 Week
			Mar. 3 —Apr. 28	Apr. 28	8 Week

### BLOOM JUNE 30, 1958

25-45°	Mar. 10	Mar. 31	Mar. 10—Apr. 21	Apr. 21	10 Week
			Mar. 10—Apr. 28	Apr. 28	9 Week
			Mar. 10—May 5	May 5	8 Week

### BLOOM JULY 7, 1958

25-45°	Mar. 17	Apr. 7	Mar. 17—Apr. 28	Apr. 28	10 Week
			Mar. 17—May 5	May 5	9 Week
			Mar. 17—May 12	May 12	8 Week

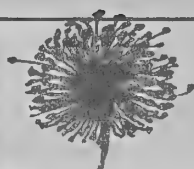
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		10 Week	9 Week	8 Week
WHITE	S	Giant Betsy Ross Sentinel Whirlwind	Marblehead Queen's Lace Silver Queen	Silver Sheen Wh. Pink Chief
	P	Feathertop Iceberg Illini Igloo Illini Snowdrift Madonna Shasta Whitetop	Alaska Halo Keepsake Memento Pinocchio Silver Cloud Vesta White Keepsake White Popcorn	Blizzard Pristine Silvertone
YELLOW	S	Chairman Yellow Betsy Ross	Gold Lace Good News Luyona	Blazing Gold
	P	Crescendo Mary Hall Luxury Yel. Beauregard Yel. Iceberg Yellow Igloo Yellow Shasta Yellowtop	Dandy Golden Herald Gondola Happiness Honeymoon Sauterne Starlight Statesman Sunup Yellow Halo	
BRONZE & RED	P	Jeffire Beauregard	Bronze Dot Buckskin Sybil	Calumet Paradise Talisman
PINK	S	Laughter		
	P	Pennant	Bluechip Pink Dot Pinkette Reward Tempo	Mirth

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM JULY 14, 1958**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
25-45°	Mar. 24	Apr. 14	Mar. 24—May 5	May 5	10 Week
			Mar. 24—May 12	May 12	9 Week
			Mar. 24—May 19	May 19	8 Week

**BLOOM JULY 21, 1958**

25-45°	Mar. 31	Apr. 21	Mar. 31—May 5	May 12	10 Week
			Mar. 31—May 12	May 19	9 Week
			Mar. 31—May 19	May 26	8 Week

**BLOOM JULY 28, 1958**

25-45°	Apr. 7	Apr. 28	Apr. 7 —May 5	May 19	10 Week
			Apr. 7 —May 12	May 26	9 Week
			Apr. 7 —May 19	June 2	8 Week

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	10 Week	9 Week	8 Week
<b>WHITE</b>	<b>S</b> Giant Betsy Ross Sentinel Whirlwind	Marblehead Queen's Lace Silver Queen	Silver Sheen Wh. Pink Chief
	<b>P</b> Feathertop Iceberg Illini Igloo Illini Snowdrift Madonna Shasta Whitetop	Alaska Halo (Ghs.) Keepsake Memento Pinocchio Silver Cloud (Ghs.) Vesta White Keepsake White Popcorn	Blizzard Pristine Silvertone
<b>YELLOW</b>	<b>S</b> Chairman Yellow Betsy Ross	Gold Lace Good News Luyona	Blazing Gold
	<b>P</b> Crescendo Mary Hall Luxury Yel. Beauregard Yel. Iceberg Yellow Igloo Yellow Shasta Yellowtop	Dandy Golden Herald Gondola Happiness Honeymoon Sauterne Starlight Statesman Sunup Yellow Halo (Ghs.)	
<b>BRONZE &amp; RED</b>	<b>P</b> Jetfire Beauregard	Bronze Dot Buckskin Sybil	
<b>PINK</b>	<b>S</b> Laughter		
	<b>P</b> Pennant	Bluechip Pink Dot Pinkette Reward Tempo	Mirth

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM AUGUST 4, 1958**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
25-45°	Apr. 14	May 5	Apr. 14—May 5	May 26	10 Week
			Apr. 14—May 12	June 2	9 Week
			Apr. 14—May 19	June 9	8 Week

**BLOOM AUGUST 11, 1958**

25-45°	Apr. 21	May 12	Apr. 21—May 5	June 2	10 Week
			Apr. 21—May 12	June 9	9 Week
			Apr. 21—May 19	June 16	8 Week

**BLOOM AUGUST 18, 1958**

25-45°	Apr. 28	May 19	Apr. 28—May 5	June 9	10 Week
			Apr. 28—May 12	June 16	9 Week
			Apr. 28—May 19	June 23	8 Week

\*For No Pinch Method: Plant and Light on Pinch Date

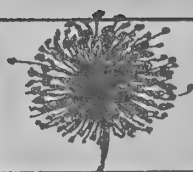
### VARIETIES IN RESPONSE GROUPS

		10 Week	9 Week	8 Week
WHITE	S	Giant Betsy Ross Sentinel Whirlwind	Marblehead Queen's Lace Silver Queen	Silver Sheen Wh. Pink Chief
	P	Feathertop Iceberg Illini Igloo Illini Snowdrift Madonna Shasta Whitetop	Alaska Halo (Ghs.) Keepsake Memento Pinocchio Silver Cloud (Ghs.) Vesta White Keepsake White Popcorn	Blizzard Pristine Silvertone
YELLOW	S	Chairman Yellow Betsy Ross	Gold Lace Good News Luyona	Blazing Gold
	P	Crescendo Mary Hall Luxury Yel. Beauregard Yel. Iceberg Yellow Igloo Yellow Shasta Yellowtop	Dandy Golden Herald Gondola Happiness Honeymoon Sauterne Starlight Statesman Sunup Yellow Halo (Ghs.)	
BRONZE & RED	P	Jeffire Beauregard	Bronze Dot Buckskin Sybil	
PINK	S	Laughter		
	P	Pennant	Bluechip Pink Dot Pinkette Reward Tempo	Mirth

S—Standard

P—Pompon





## Year-Round Chrysanthemum Flowering Schedule

**BLOOM AUGUST 25, 1958**

LATITUDE	PLANT	PINCH*	START SHADE	RESPONSE GROUP
25-45°	May 5	May 26	June 16 June 23 June 30	10 Week 9 Week 8 Week

**BLOOM SEPTEMBER 1, 1958**

25-45°	May 12	June 2	June 23 June 30 July 7	10 Week 9 Week 8 Week
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**BLOOM SEPTEMBER 8, 1958**

25-45°	May 19	June 9	June 30 July 7 July 14	10 Week 9 Week 8 Week
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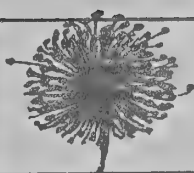
\*For No Pinch Method: Plant on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		10 Week	9 Week	8 Week
WHITE	S	Giant Betsy Ross Sentinel Whirlwind	Marblehead Queen's Lace Themesong	Silver Sheen Wh. Pink Chief
	P	Encore Feathertop Iceberg Illini Igloo Illini Snowdrift Madonna Shasta Stardust Whitetop	Alaska Crystalite Halo (Ghs.) Keepsake Memento Pinocchio Silver Cloud (Ghs.) Vesta Thistledown White Keepsake White Popcorn	Blizzard Echo Pristine Silvertone
YELLOW	S	Chairman Yellow Betsy Ross	Gold Lace Good News Luyona	Blazing Gold
	P	Crescendo Fanfare Luxury Sunfire Yel. Beauregard Yel. Iceberg. Yellow Igloo Yellow Shasta Yellowtop	Brilliance Dandy Golden Herald Gondola Happiness Honeymoon Sauterne Starlight Statesman Sunup Yellow Halo (Ghs.)	Sungold
BRONZE & RED	S		Fred Yule	
	P	Jetfire Beauregard	Bronze Dot Buckskin Sybil Wagonwheels	Resolute
PINK	S	Laughter	Bunbu	
	P	Cheerful Pennant Profile	Bluechip Darkchip Pink Dot Handsome Pinkette Tempo	Mirth

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

### BLOOM SEPTEMBER 15, 1958

LATITUDE	PLANT	PINCH*	START SHADE	RESPONSE GROUP
25-45°	May 26	June 16	July 7 July 14 July 21	10 Week 9 Week 8 Week

### BLOOM SEPTEMBER 22, 1958

25-45°	June 2	June 23	July 7 July 14 July 21	11 Week 10 Week 9 Week
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### BLOOM SEPTEMBER 29, 1958

25-45°	June 2	June 23	July 14 July 21 July 28	11 Week 10 Week 9 Week
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\*For No Pinch Method: Plant on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	11 Week	10 Week	9 Week	8 Week
<b>WHITE</b>	<b>S</b>	Giant Betsy Ross Crystal Queen Melo	Albatross Ind. White Themesong	Silver Sheen Wh. Pink Chief
	<b>P</b>	White Taffeta Sculpture Highbrow Paramount	Freedom Whitetop Featherop Iceberg Madonna Encore Pacesetter Illini Igloo Shasta Illini Snowdrift Stardust	White Popcorn White Keepsake Pinocchio Songster Vesla Memento Silver Cloud (Ghs.) Halo (Ghs.) Alaska Crystalite Thistledown
<b>YELLOW</b>	<b>S</b>	Chairman Yellow Queen Cream Melo Yellow Melo	Luyona Good News Gold Lace Imp. Ind. Yellow	Blazing Gold
	<b>P</b>	Yel. Sculpture Golden Chord Forty Niner Gold Ball Illini Goldilocks Lollipop Pippin Illini Sunspot Sultan Yel. Paramount Etude Souvenir Esquire	Yellowtop Aztec Mary Hall Crescendo Yel. Beauregard Yel. Iceberg Luxury Yellow Shasta Jealousy Yellow Igloo Heyday Yel. Pacesetter Fanfare Sunfire Yel. Ill. Snowdrift	Starlight Golden Herald Gold Coast Happiness Sunup Sauterne Gondola Yellow Halo (Ghs.) Dandy Statesman Honeymoon Brilliancy
<b>BRONZE &amp; RED</b>	<b>S</b>	Mrs. Eisenhower	Nomago Copper Queen Mrs. Roy	Dk. Ind. Bronze Antique Detroit News Fred Yule
	<b>P</b>	Thelma Ranger Olnura Bronze Minuet Rubaiyat	Jetfire Beauregard Rubicon Nectarine Samovar Bronze Pandora Climax Bronze Portrait Giltglow	Gaiety Bronze Dot Buckskin Sybil Bronzechip Salmonchip Buccaneer Wagonwheels Imp. Red Daisy
<b>PINK</b>	<b>S</b>		Dk. Orchid Queen Laughter Merriment	Ind. Pink Bunbu Mary Garden
	<b>P</b>	Taffeta Jubilation Illini Springtime Almega Minuet Illini Formal	Parisienne Delight Portrait Profile Bonnie Pennant Pandora Cheerful	Pinkette Vogue Reward Pink Dot Bluechip Darkchip Handsome Tempo Reveille

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM OCTOBER 6, 1958**

LATITUDE	PLANT	PINCH*	START SHADE	RESPONSE GROUP
40-45°	June 9	June 30	July 21	11 Week
			July 28	10 Week
			Aug. 4	9 Week
25-40°	June 16	July 7	July 21	11 Week
			July 28	10 Week
			Aug. 4	9 Week

**BLOOM OCTOBER 13, 1958**

40-45°	June 16	July 7	July 28	11 Week
			Aug. 4	10 Week
			Aug. 11	9 Week
25-40°	June 23	July 14	July 28	11 Week
			Aug. 4	10 Week
			Aug. 11	9 Week

\*For No Pinch Method: Plant on Pinch Date

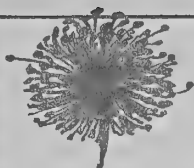
### VARIETIES IN RESPONSE GROUPS

	11 Week	10 Week	9 Week
<b>WHITE</b>	<b>S</b>	Giant Betsy Ross Crystal Queen Fred Shoesmith Mefo	Albatross Marblehead Ind. White Themesong
	<b>P</b>	White Taffeta Sculpture Highbrow Paramount Belray Surfside	White Popcorn White Keepsake Pinocchio Vesta Memento Silver Cloud (Ghs.) Halo (Ghs.) Alaska Crystalite Thistledown
<b>YELLOW</b>	<b>S</b>	Yellow Queen Yellow Mefo Cream Mefo Golden Shoesmith	Luyona Gold Lace Good News Imp. Ind. Yellow
	<b>P</b>	Souvenir Yel. Sculpture Golden Chord Forty Niner Esquire Gold Ball Illini Goldilocks Yellow Highbrow Lollipop Pippin Yel. Paramount Yellow Taffeta Etude	Starlight Golden Herald Gold Coast Happiness Sunup Sauterne Gondola Yellow Halo (Ghs.) Dandy Statesman Honeymoon Brilliance
<b>BRONZE &amp; RED</b>	<b>S</b>	Balcombe Perfection Mrs. Eisenhower Valentine	Dk. Ind. Bronze Detroit News Fred Yule
	<b>P</b>	Thelma Ranger Rusticon Illini War Paint Olnura Bronze Minuet Rubaiyat Br. Jubilation	Gaiety Bronze Dot Buckskin Buccaneer Imp. Red Daisy Salmonchip
<b>PINK</b>	<b>S</b>	Rose Delight Thanks. Pink	Ind. Pink Bunbu
	<b>P</b>	Taffeta Jubilation Magic Almega Minuet Illini Formal Celebrity Staccato	Pinkette Vogue Reward Pink Dot Bluechip Darkchip Tempo Handsome

S—Standard

P—Pompon





## Year-Round Chrysanthemum Flowering Schedule

**BLOOM OCTOBER 20, 1958**

LATITUDE	PLANT	PINCH*	START SHADE	RESPONSE GROUP
40-45°	June 16	July 7	Aug. 4 Aug. 11 no	11 Week 10 Week 9 Week
25-40°	June 30	July 21	Aug. 4 Aug. 11 no	11 Week 10 Week 9 Week

**BLOOM OCTOBER 27, 1958**

40-45°	June 23	July 14	Aug. 11 no	11 Week 10 Week
25-40°	July 7	July 28	Aug. 11 no	11 Week 10 Week

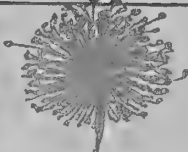
\*For No Pinch Method: Plant on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	11 Week	10 Week	9 Week
<b>WHITE</b>	S	<b>Giant Betsy Ross</b> <b>Crystal Queen</b> <b>Fred Shoemith</b> <b>Mefo</b>	<b>Albatross</b> <b>Marblehead</b> <b>Ind. White</b> <b>Themesong</b>
	P	<b>White Taffeta</b> <b>Sculpture</b> <b>Highbrow</b> <b>Paramount</b> <b>Belray</b> <b>Surfside</b>	<b>White Popcorn</b> <b>White Keepsake</b> <b>Pinocchio</b> <b>Vesta</b> <b>Memento</b> <b>Silver Cloud (Ghs.)</b> <b>Halo (Ghs.)</b> <b>Alaska</b> <b>Crystalite</b> <b>Thistledown</b>
<b>YELLOW</b>	S	<b>Yellow Queen</b> <b>Yellow Mefo</b> <b>Cream Mefo</b> <b>Golden Shoemith</b>	<b>Luyona</b> <b>Gold Lace</b> <b>Good News</b> <b>Imp. Ind. Yellow</b>
	P	<b>Souvenir</b> <b>Yellow Sculpture</b> <b>Golden Chord</b> <b>Forty Niner</b> <b>Esquire</b> <b>Gold Ball</b> <b>Illini Goldilocks</b> <b>Yellow Highbrow</b> <b>Lollipop</b> <b>Pippin</b> <b>Yellow Paramount</b> <b>Yellow Taffeta</b> <b>Etude</b>	<b>Starlight</b> <b>Golden Herald</b> <b>Gold Coast</b> <b>Happiness</b> <b>Sunup</b> <b>Sauterne</b> <b>Gondola</b> <b>Yellow Halo (Ghs.)</b> <b>Dandy</b> <b>Statesman</b> <b>Honeymoon</b> <b>Brilliancy</b>
<b>BRONZE &amp; RED</b>	S	<b>Balcombe Perfection</b> <b>Mrs. Eisenhower</b> <b>Valentine</b>	<b>Dark Ind. Bronze</b> <b>Detroit News</b> <b>Fred Yule</b>
	P	<b>Thelma</b> <b>Ranger</b> <b>Rusticon</b> <b>Illini War Paint</b> <b>Olnura</b> <b>Bronze Minuet</b> <b>Rubaiyat</b> <b>Br. Jubilation</b>	<b>Gaiety</b> <b>Bronze Dot</b> <b>Buckskin</b> <b>Buccaneer</b> <b>Imp. Red Daisy</b> <b>Salmonchip</b>
<b>PINK</b>	S	<b>Rose Delight</b> <b>Thanksgiving Pink</b>	<b>Ind. Pink</b> <b>Bunbu</b>
	P	<b>Taffeta</b> <b>Jubilation</b> <b>Magic</b> <b>Almega</b> <b>Minuet</b> <b>Illini Formal</b> <b>Celebrity</b> <b>Staccato</b>	<b>Pinkette</b> <b>Vogue</b> <b>Reward</b> <b>Pink Dot</b> <b>Bluechip</b> <b>Darkchip</b> <b>Tempo</b> <b>Handsome</b>

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM NOVEMBER 3, 1958**

LATITUDE	PLANT	PINCH*	START SHADE	RESPONSE GROUP
40-45°	June 30	July 21	Aug. 11 Aug. 18 no	12 Week 11 Week 10 Week
30-40°	July 7	July 28	Aug. 11 Aug. 18 no	12 Week 11 Week 10 Week
25-30°	July 14	Aug. 4	Aug. 11 Aug. 18 no	12 Week 11 Week 10 Week

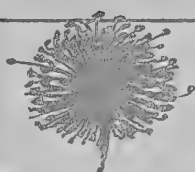
\*For No Pinch Method: Plant on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b> <b>Chattanooga</b>	<b>Marketeer</b>	<b>Ind. White</b> <b>Crystal Queen</b> <b>Mefo</b> <b>Fred Shoesmith</b>
	<b>P</b> <b>Silvercrest</b> <b>Illini Glacier</b> <b>Illini Peace</b> <b>Fortune</b>	<b>White Taffeta</b> <b>Sculpture</b> <b>Highbrow</b> <b>Paramount</b> <b>Belray</b> <b>Carrara</b> <b>Surfside</b>	<b>Whitetop</b> <b>Iceberg</b> <b>Encore</b> <b>Pacesetter</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Little America</b> <b>Illini Snowdrift</b> <b>Stardust</b>
<b>YELLOW</b>	<b>S</b> <b>Dk. Yel. Chattanooga</b> <b>Yel. Chattanooga</b> <b>Golden Pearson</b>	<b>Harvester</b>	<b>Imp. Ind. Yellow</b> <b>Yellow Queen</b> <b>Yellow Mefo</b> <b>Golden Shoesmith</b>
	<b>P</b> <b>Goldsmith</b> <b>Highlander</b> <b>Illini Wampum</b> <b>Yellow Fortune</b> <b>Omega</b> <b>Yellow Galaxy</b>	<b>Golden Chord</b> <b>Forty Niner</b> <b>Gold Ball</b> <b>Yellow Paramount</b> <b>Yellow Highbrow</b> <b>Sultan</b> <b>Pippin</b> <b>Etude</b>	<b>Yellowtop</b> <b>Mary Hall</b> <b>Yellow Beauregard</b> <b>Yellow Iceberg</b> <b>Yellow Shasta</b> <b>Yellow Igloo</b> <b>Heyday</b> <b>Yellow Pacesetter</b>
<b>BRONZE &amp; RED</b>	<b>S</b> <b>Oak Leaf</b>	<b>Balcombe Perfection</b> <b>Mrs. Eisenhower</b> <b>Calvert's Gold</b>	<b>Ind. Bronze</b> <b>Copper Queen</b> <b>Mrs. Roy</b>
	<b>P</b> <b>Illini Redwood</b> <b>Br. Goldsmith</b> <b>Galaxy</b> <b>Orange Galaxy</b> <b>Crackerjack</b>	<b>Rusticon</b> <b>Thelma</b> <b>Rubaiyat</b> <b>Illini War Paint</b> <b>Olnura</b> <b>Bronze Minuet</b> <b>Bronze Jubilation</b>	<b>Jetfire</b> <b>Beauregard</b> <b>Rubicon</b> <b>Bronze Pandora</b> <b>Climax</b> <b>Giltglow</b> <b>Nectarine</b>
<b>PINK</b>	<b>S</b> <b>Pink Peter John</b> <b>Dark Pink Peter John</b>	<b>Calvert's Pink</b> <b>Thanks. Pink</b>	<b>Ind. Pink</b> <b>Dark Orchid Queen</b>
	<b>P</b> <b>Illini Roseglow</b> <b>Delmar</b> <b>Nugano</b>	<b>Jubilation</b> <b>Illini Springtime</b> <b>Almega</b> <b>Magic</b> <b>Celebrity</b> <b>Staccato</b>	<b>Delight</b> <b>Portrait</b> <b>Bonnie</b> <b>Pennant</b> <b>Pandora</b> <b>Cheerful</b>

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM NOVEMBER 10, 1958**

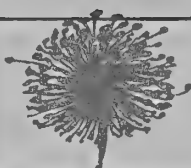
LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	June 30	July 21	None	Aug. 18	12 Week
			None	no	11 Week
			Aug. 4 —Sept. 1	no	10 Week
30-40°	July 7	July 28	None	Aug. 18	12 Week
			None	no	11 Week
			Aug. 4 —Sept. 1	no	10 Week
25-30°	July 14	Aug. 4	None	Aug. 18	12 Week
			None	no	11 Week
			Aug. 4 —Sept. 1	no	10 Week

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b> <b>Chattanooga</b>	<b>Marketeer</b>	<b>Ind. White</b> <b>Crystal Queen</b> <b>Melo</b> <b>Fred Shoesmith</b>
	<b>P</b> <b>Silvercrest</b> <b>Illini Glacier</b> <b>Illini Peace</b> <b>Fortune</b>	<b>White Taffeta</b> <b>Sculpture</b> <b>Highbrow</b> <b>Paramount</b> <b>Belray</b> <b>Carrara</b> <b>Surfside</b>	<b>Whitetop</b> <b>Iceberg</b> <b>Encore</b> <b>Pacesetter</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Little America</b> <b>Illini Snowdrift</b> <b>Stardust</b>
<b>YELLOW</b>	<b>S</b> <b>Dk. Yel. Chattanooga</b> <b>Yel. Chattanooga</b> <b>Golden Pearson</b>	<b>Harvester</b>	<b>Imp. Ind. Yellow</b> <b>Yellow Queen</b> <b>Yellow Melo</b> <b>Golden Shoesmith</b>
	<b>P</b> <b>Goldsmith</b> <b>Highlander</b> <b>Illini Wampum</b> <b>Yellow Fortune</b> <b>Omega</b> <b>Yellow Galaxy</b>	<b>Golden Chord</b> <b>Forty Niner</b> <b>Gold Ball</b> <b>Yellow Paramount</b> <b>Yellow Highbrow</b> <b>Sultan</b> <b>Pippin</b> <b>Hiudo</b>	<b>Yellowtop</b> <b>Mary Hall</b> <b>Yellow Beauregard</b> <b>Yellow Iceberg</b> <b>Yellow Shasta</b> <b>Yellow Igloo</b> <b>Heyday</b> <b>Yellow Pacesetter</b>
<b>BRONZE &amp; RED</b>	<b>S</b> <b>Oak Leaf</b>	<b>Balcombe Perfection</b> <b>Mrs. Eisenhower</b> <b>Calvert's Gold</b>	<b>Ind. Bronze</b> <b>Copper Queen</b> <b>Mrs. Roy</b>
	<b>P</b> <b>Illini Redwood</b> <b>Br. Goldsmith</b> <b>Galaxy</b> <b>Orange Galaxy</b> <b>Crackerjack</b>	<b>Rusticon</b> <b>Thelma</b> <b>Rubaiyat</b> <b>Illini War Paint</b> <b>Olnura</b> <b>Bronze Minuet</b> <b>Bronze Jubilation</b>	<b>Jeffire</b> <b>Beauregard</b> <b>Rubicon</b> <b>Bronze Pandora</b> <b>Climax</b> <b>Giltglow</b> <b>Nectarine</b>
<b>PINK</b>	<b>S</b> <b>Pink Peter John</b> <b>Dark Pink Peter John</b>	<b>Calvert's Pink</b> <b>Thanks. Pink</b>	<b>Ind. Pink</b> <b>Dark Orchid Queen</b>
	<b>P</b> <b>Illini Roseglow</b> <b>Delmar</b> <b>Nugano</b>	<b>Jubilation</b> <b>Illini Springtime</b> <b>Almega</b> <b>Magic</b> <b>Celebrity</b> <b>Staccato</b>	<b>Delight</b> <b>Portrait</b> <b>Bonnie</b> <b>Pennant</b> <b>Pandora</b> <b>Cheerful</b>





## Year-Round Chrysanthemum Flowering Schedule

**BLOOM NOVEMBER 17, 1958**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	July 7	July 28	None None None Aug. 4 —Sept. 8	Aug. 18 Aug. 11 no no	13 Week 12 Week 11 Week 10 Week
30-40°	July 14	Aug. 4	None None None Aug. 4 —Sept. 8	Aug. 18 Aug. 11 no no	13 Week 12 Week 11 Week 10 Week
25-30°	July 21	Aug. 11	None None Aug. 4 —Sept. 8	Aug. 11 no no	12 Week 11 Week 10 Week

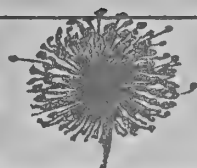
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	13 Week	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b>	<b>Chattanooga</b> <b>White Peter John</b>	<b>Marketeer</b>	<b>Ind. White</b> <b>Crystal Queen</b> <b>Melo</b> <b>Fred Shoesmith</b>
	<b>P</b>	<b>Acclaim</b> <b>Cotillion</b> <b>Yukon</b> <b>Satellite</b> <b>Icecap</b>	<b>White Taffeta</b> <b>Sculpture</b> <b>Highbrow</b> <b>Paramount</b> <b>Surfside</b>	<b>Whitetop</b> <b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Illini Snowdrift</b>
<b>YELLOW</b>	<b>S</b>	<b>Dk. Yel. Chat'n'ga</b> <b>Yel. Chattanooga</b> <b>Golden Pearson</b>	<b>Harvester</b> <b>Marie DePetris</b>	<b>Imp. Ind. Yellow</b> <b>Yellow Queen</b> <b>Yellow Melo</b> <b>Golden Shoesmith</b>
	<b>P</b>	<b>Coronation</b> <b>Golden Acclaim</b> <b>Cinderella</b> <b>Dk. Yel. Satellite</b> <b>Corsair</b>	<b>Yel. Highbrow</b> <b>Forty Niner</b> <b>Klondike</b> <b>Yel. Paramount</b> <b>Golden Chord</b> <b>Sultan</b> <b>Etude</b>	<b>Yellowtop</b> <b>Yel. Beauregard</b> <b>Yel. Iceberg</b> <b>Yel. Shasta</b> <b>Yellow Igloo</b> <b>Heyday</b> <b>Jealousy</b>
<b>BRONZE &amp; RED</b>	<b>S</b>	<b>Oak Leaf</b> <b>Bronze Peter John</b>	<b>Balcombe Perfection</b> <b>Calvert's Gold</b> <b>Mrs. Eisenhower</b>	<b>Ind. Bronze</b> <b>Copper Queen</b> <b>Anaconda</b>
	<b>P</b>	<b>Christmas Star</b> <b>Flame Minstrel</b> <b>Dk. Br. Minstrel</b> <b>Red Minstrel</b>	<b>Rusticon</b> <b>Thelma</b> <b>Rubaiyat</b> <b>Br. Jubilation</b> <b>Bronze Minuet</b>	<b>Beauregard</b> <b>Climax</b> <b>Giltglow</b> <b>Rubicon</b> <b>Br. Masterpiece</b>
<b>PINK</b>	<b>S</b>	<b>Pink Peter John</b> <b>Dk. Pk. Peter John</b>	<b>Calvert's Pink</b> <b>Thanks. Pink</b>	<b>Ind. Pink</b> <b>Orchid Queen</b>
	<b>P</b>	<b>Eminence</b> <b>Debutante</b> <b>Minstrel</b> <b>Imp. Pk. Minstrel</b>	<b>Almega</b> <b>Minuet</b> <b>Celebrity</b> <b>Stacatto</b>	<b>Portrait</b> <b>Profile</b> <b>Rose Masterpiece</b> <b>Cheerful</b>

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM NOVEMBER 24, 1958**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	July 14	Aug. 4	None	Aug. 25	13 Week
			None	no	12 Week
			Aug. 11—Sept. 8	no	11 Week
			Aug 4 —Sept. 15	no	10 Week
30-40°	July 21	Aug. 11	None	Aug. 25	13 Week
			None	no	12 Week
			Aug. 11—Sept. 8	no	11 Week
			Aug 4 —Sept. 15	no	10 Week
25-30°	July 28	Aug. 18	None	no	12 Week
			Aug. 11—Sept. 8	no	11 Week
			Aug 4 —Sept. 15	no	10 Week

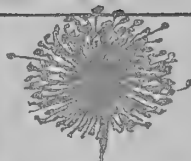
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	13 Week	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b>	<b>Chattanooga</b> <b>White Peter John</b>	<b>Marketeer</b>	<b>Ind. White</b> <b>Crystal Queen</b> <b>Mefo</b> <b>Fred Shoesmith</b>
	<b>P</b>	<b>Silvercrest</b> <b>Illini Glacier</b> <b>Illini Peace</b> <b>White Valencia</b> <b>Fortune</b>	<b>White Taffeta</b> <b>Sculpture</b> <b>Highbrow</b> <b>Paramount</b> <b>Surfside</b>	<b>Whitewop</b> <b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Illini Snowdrift</b>
<b>YELLOW</b>	<b>S</b>	<b>Dk. Yel. Chat'n'ga</b> <b>Yel. Chattanooga</b> <b>Golden Pearson</b>	<b>Harvester</b> <b>Marie DePetris</b>	<b>Imp. Ind. Yellow</b> <b>Yellow Queen</b> <b>Yellow Mefo</b> <b>Golden Shoesmith</b>
	<b>P</b>	<b>Coronation</b> <b>Golden Acclaim</b> <b>Cinderella</b> <b>Dk. Yel. Satellite</b> <b>Corsair</b>	<b>Yel. Highbrow</b> <b>Forty Niner</b> <b>Klondike</b> <b>Yel. Paramount</b> <b>Golden Chord</b> <b>Sultan</b> <b>Etude</b>	<b>Yellowtop</b> <b>Yel. Beauregard</b> <b>Yellow Iceberg</b> <b>Yellow Shasta</b> <b>Yellow Igloo</b> <b>Heyday</b> <b>Jealousy</b>
<b>BRONZE &amp; RED</b>	<b>S</b>	<b>Oak Leaf</b> <b>Br. Peter John</b>	<b>Balcombe Perfection</b> <b>Calvert's Gold</b> <b>Mrs. Eisenhower</b>	<b>Ind. Bronze</b> <b>Copper Queen</b> <b>Anaconda</b>
	<b>P</b>	<b>Christmas Star</b> <b>Flame Minstrel</b> <b>Dk. Br. Minstrel</b> <b>Red Minstrel</b>	<b>Rusticon</b> <b>Thelma</b> <b>Rubaiyat</b> <b>Br. Jubilation</b> <b>Bronze Minuet</b>	<b>Beauregard</b> <b>Climax</b> <b>Giltglow</b> <b>Rubicon</b> <b>Br. Masterpiece</b>
<b>PINK</b>	<b>S</b>	<b>Pink Peter John</b> <b>Dk. Pk. Peter John</b>	<b>Calvert's Pink</b> <b>Thanks. Pink</b>	<b>Ind. Pink</b> <b>Orchid Queen</b>
	<b>P</b>	<b>Eminence</b> <b>Debutante</b> <b>Minstrel</b> <b>Imp. Pk. Minstrel</b>	<b>Almega</b> <b>Minuet</b> <b>Celebrity</b> <b>Staccato</b>	<b>Portrait</b> <b>Profile</b> <b>Rose Masterpiece</b> <b>Cheerful</b>

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM DECEMBER 1, 1958**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	July 21	Aug. 11	None	Aug. 25	14 Week
			None	no	13 Week
			Aug. 18—Sept. 8	no	12 Week
			Aug. 11—Sept. 15	no	11 Week
			Aug. 4 —Sept. 22	no	10 Week
30-40°	July 28	Aug. 18	None	Aug. 25	14 Week
			None	no	13 Week
			Aug. 18—Sept. 8	no	12 Week
			Aug. 11—Sept. 15	no	11 Week
			Aug. 4 —Sept. 22	no	10 Week
25-30°	Aug. 4	Aug. 25	Aug. 18—Sept. 8	no	12 Week
			Aug. 11—Sept. 15	no	11 Week
			Aug. 4 —Sept. 22	no	10 Week

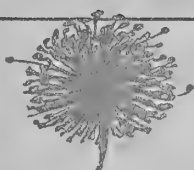
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b>	<b>Dec. White</b> <b>Smith's White</b>	<b>Chattanooga</b> <b>December Glory</b>	<b>Marketeer</b>	<b>Ind. White</b> <b>Crystal Queen</b> <b>Fred Shoemith</b>
	<b>P</b>	<b>Silversmith</b> <b>Snowcap</b> <b>White Riviera</b> <b>Elegance</b>	<b>Silvercrest</b> <b>Illini Glacier</b> <b>Illini Peace</b> <b>Fortune</b>	<b>Highbrow</b> <b>Paramount</b> <b>Belray</b> <b>Surfside</b> <b>Carrara</b>	<b>Whitotop</b> <b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Illini Snowdrift</b>
<b>YELLOW</b>	<b>S</b>	<b>Chalice</b> <b>Tobin's Yellow</b> <b>Mefeore</b>	<b>Dk. Yel. Chat'n'ga</b> <b>Yel. Chattanooga</b> <b>Golden Pearson</b>	<b>Harvester</b> <b>Marie DePetrus</b>	<b>Imp. Ind. Yellow</b> <b>Yellow Queen</b> <b>Golden Shoemith</b>
	<b>P</b>	<b>Yellow Riviera</b> <b>Shamrock</b> <b>Vibrant</b> <b>Golden Elegance</b> <b>Sun Valley</b>	<b>Gold Acclaim</b> <b>Dk. Yel. Satellite</b> <b>Coronation</b> <b>Yel. Snowcrest</b> <b>Corsair</b>	<b>Highlander</b> <b>Illini Wampum</b> <b>Yellow Fortune</b> <b>Omega</b> <b>Yellow Galaxy</b>	<b>Yellowtop</b> <b>Yel. Beauregard</b> <b>Yellow Shasta</b> <b>Yellow Igloo</b> <b>Heyday</b>
<b>BRONZE &amp; RED</b>	<b>S</b>		<b>Oak Leaf</b> <b>Bronze Peter John</b>	<b>Balcombe Perfect</b> <b>Calvert's Gold</b>	<b>Ind. Bronze</b> <b>Copper Queen</b>
	<b>P</b>	<b>Bronze Riviera</b> <b>Topaz</b> <b>Christ. Greet'gs</b> <b>Merrymaker</b> <b>Poinsettia</b>	<b>Christmas Star</b> <b>Flame Minstrel</b> <b>Dk. Br. Minstrel</b> <b>Red Minstrel</b>	<b>Galaxy</b> <b>Orange Galaxy</b> <b>Holiday</b> <b>Crackerjack</b>	<b>Rusticon</b> <b>Thelma</b> <b>Rubaiyat</b> <b>Br. Jubilation</b>
<b>PINK</b>	<b>S</b>		<b>Pink Peter John</b> <b>Dk. Pk. Peter John</b>	<b>Calvert's Pink</b>	<b>Ind. Pink</b> <b>Orchid Queen</b>
	<b>P</b>	<b>Riviera</b> <b>Rosalind</b> <b>Defiance</b> <b>Alvoda</b>	<b>Eminence</b> <b>Debutante</b> <b>Minstrel</b> <b>Imp. Minstrel</b>	<b>Delmar</b> <b>Valencia</b> <b>Heritage</b>	<b>Jubilation</b> <b>Magic</b> <b>Celebrity</b> <b>Staccato</b>
					<b>Portrait</b> <b>Profile</b> <b>Rose Masterp'ce</b> <b>Cheerful</b>

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM DECEMBER 8, 1958**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	July 21	Aug. 11	None	Aug. 25	14 Week
			None	no	13 Week
			Aug. 18—Sept. 15	no	12 Week
			Aug. 11—Sept. 22	no	11 Week
			Aug. 4 —Sept. 29	no	10 Week
30-40°	July 28	Aug. 18	None	Aug. 25	14 Week
			None	no	13 Week
			Aug. 18—Sept. 15	no	12 Week
			Aug. 11—Sept. 22	no	11 Week
			Aug. 4 —Sept. 29	no	10 Week
25-30°	Aug. 11	Sept. 1	Aug. 18—Sept. 15	no	12 Week
			Aug. 11—Sept. 22	no	11 Week
			Aug. 4 —Sept. 29	no	10 Week

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
<b>WHITE</b>	S	<b>Dec. White</b> <b>Smith's White</b>	<b>Chattanooga</b> <b>Dec. Glory</b>	<b>Marketeer</b>	<b>Ind. White</b> <b>Crystal Queen</b> <b>Fred Shoemaker</b>
	P	<b>Silversmith</b> <b>Snowcap</b> <b>White Riviera</b> <b>Elegance</b>	<b>Silvercrest</b> <b>Illini Glacier</b> <b>Illini Peace</b> <b>Fortune</b>	<b>Highbrow</b> <b>Paramount</b> <b>Belray</b> <b>Surfside</b> <b>Carrara</b>	<b>Whitetop</b> <b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Illini Snowdrift</b>
<b>YELLOW</b>	S	<b>Chalice</b> <b>Tobin's Yellow</b> <b>Meteore</b>	<b>Dk. Yel. Chat'n'ga</b> <b>Yel. Chattanooga</b> <b>Golden Pearson</b>	<b>Harvester</b> <b>Marie DePetris</b>	<b>Imp. Ind. Yel.</b> <b>Yellow Melo</b> <b>Gol. Shoemaker</b>
	P	<b>Yellow Riviera</b> <b>Shamrock</b> <b>Vibrant</b> <b>Gol. Elegance</b> <b>Sun Valley</b>	<b>Highlander</b> <b>Illini Wampum</b> <b>Yellow Fortune</b> <b>Omega</b> <b>Yellow Galaxy</b>	<b>Yellow Highbrow</b> <b>Etude</b> <b>Forty Niner</b> <b>Lollipop</b> <b>Yel. Paramount</b>	<b>Yellowtop</b> <b>Yel. Beauregard</b> <b>Yel. Shasta</b> <b>Yellow Igloo</b> <b>Heyday</b>
<b>BRONZE &amp; RED</b>	S		<b>Oak Leaf</b> <b>Br. Peter John</b>	<b>Balcombe Perf.</b> <b>Calvert's Gold</b>	<b>Ind. Bronze</b> <b>Copper Queen</b>
	P	<b>Bronze Riviera</b> <b>Topaz</b> <b>Christ. Greet'gs</b> <b>Merrymaker</b> <b>Poinsettia</b>	<b>Christmas Star</b> <b>Flame Minstrel</b> <b>Dk. Br. Minst'l.</b> <b>Red Minstrel</b>	<b>Galaxy</b> <b>Orange Galaxy</b> <b>Holiday</b> <b>Crackerjack</b>	<b>Rusticon</b> <b>Thelma</b> <b>Rubaiyat</b> <b>Br. Jubilation</b>
<b>PINK</b>	S		<b>Pk. Peter John</b> <b>Dk. Pk. Peter John</b>	<b>Calvert's Pink</b>	<b>Ind. Pink</b> <b>Orchid Queen</b>
	P	<b>Riviera</b> <b>Rosalind</b> <b>Defiance</b> <b>Alvoda</b>	<b>Eminence</b> <b>Debutante</b> <b>Minstrel</b> <b>Imp. Minstrel</b>	<b>Delmar</b> <b>Valencia</b> <b>Heritage</b>	<b>Jubilation</b> <b>Magic</b> <b>Celebrity</b> <b>Staccato</b>

S—Standard

P—Pompon





## Year-Round Chrysanthemum Flowering Schedule

**BLOOM DECEMBER 15, 1958**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	July 28	Aug. 18	None	no	14 Week
			Aug. 25—Sept. 15	no	13 Week
			Aug. 18—Sept. 22	no	12 Week
			Aug. 11—Sept. 29	no	11 Week
			Aug. 4 —Oct. 6	no	10 Week
35-40°	Aug. 4	Aug. 25	None	no	14 Week
			Aug. 25—Sept. 15	no	13 Week
			Aug. 18—Sept. 22	no	12 Week
			Aug. 11—Sept. 29	no	11 Week
			Aug. 4 —Oct. 6	no	10 Week
30-35°	Aug. 11	Sept. 1	None	no	14 Week
			Aug. 25—Sept. 15	no	13 Week
			Aug. 18—Sept. 22	no	12 Week
			Aug. 11—Sept. 29	no	11 Week
			Aug. 4 —Oct. 6	no	10 Week
25-30°	Aug. 8	Sept. 8	Aug. 18—Sept. 22	no	12 Week
			Aug. 11—Sept. 29	no	11 Week
			Aug. 4 —Oct. 6	no	10 Week

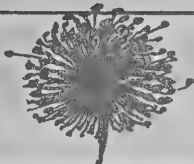
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>S</b>	<b>Dec. White</b> <b>Smith's White</b>	<b>Chattanooga</b> <b>Dec. Glory</b>	<b>Marketeer</b>	<b>Ind. White</b> <b>Crystal Queen</b> <b>Fred Shoesmith</b>
	<b>P</b>	<b>Silversmith</b> <b>Snowcap</b> <b>White Riviera</b> <b>Elegance</b>	<b>Silvercrest</b> <b>Illini Glacier</b> <b>Illini Peace</b> <b>Fortune</b>	<b>Highbrow</b> <b>Paramount</b> <b>Belray</b> <b>Surfside</b> <b>Carrara</b>	<b>Whitetop</b> <b>Iceberg</b> <b>Illini Igloo</b> <b>Shasta</b> <b>Illini Snowdrift</b>
<b>YELLOW</b>	<b>S</b>	<b>Chalice</b> <b>Tobin's Yellow</b> <b>Meteore</b>	<b>Dk. Yel. Chat'n'ga</b> <b>Yel. Chattan'ga</b> <b>Golden Pearson</b>	<b>Harvester</b> <b>Marie DePetris</b>	<b>Imp. Ind. Yel.</b> <b>Yellow Melo</b> <b>Gol. Shoesmith</b>
	<b>P</b>	<b>Yel. Riviera</b> <b>Shamrock</b> <b>Vibrant</b> <b>Gol. Elegance</b> <b>Sun Valley</b>	<b>Gold. Acclaim</b> <b>Dk. Yel. Sat.</b> <b>Coronation</b> <b>Yel. Snowcrest</b> <b>Corsair</b>	<b>Highlander</b> <b>Illini Wampum</b> <b>Yellow Fortune</b> <b>Omega</b> <b>Yellow Galaxy</b>	<b>Yellowtop</b> <b>Yel. Beauregard</b> <b>Yel. Shasta</b> <b>Yellow Igloo</b> <b>Heyday</b>
<b>BRONZE &amp; RED</b>	<b>S</b>		<b>Oak Leaf</b> <b>Br. Peter John</b>	<b>Balcombe Perf.</b> <b>Calvert's Gold</b>	<b>Ind. Bronze</b> <b>Copper Queen</b>
	<b>P</b>	<b>Br. Riviera</b> <b>Topaz</b> <b>Christ. Greet'gs</b> <b>Merrymaker</b> <b>Poinsettia</b>	<b>Christ. Star</b> <b>Flame Minstrel</b> <b>Dk. Br. Minstrel</b> <b>Red Minstrel</b>	<b>Galaxy</b> <b>Orange Galaxy</b> <b>Holiday</b> <b>Crackerjack</b>	<b>Rusticon</b> <b>Thelma</b> <b>Rubalyat</b> <b>Br. Jubilation</b>
<b>PINK</b>	<b>S</b>		<b>Pink Peter John</b> <b>Dk. Pk. Peter John</b>	<b>Calvert's Pink</b>	<b>Ind. Pink</b> <b>Orchid Queen</b>
	<b>P</b>	<b>Riviera</b> <b>Rosalind</b> <b>Defiance</b> <b>Alvoda</b>	<b>Eminence</b> <b>Debutante</b> <b>Minstrel</b> <b>Imp. Minstrel</b>	<b>Delmar</b> <b>Valencia</b> <b>Heritage</b>	<b>Jubilation</b> <b>Magic</b> <b>Celebrity</b> <b>Staccato</b>
					<b>Portrait</b> <b>Profile</b> <b>Rose Mast'p'ce</b> <b>Cheerful</b>

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM DECEMBER 22, 1958**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Aug. 4	Aug. 25	None	no	15 Week
			Sept. 1 —Sept. 15	no	14 Week
			Aug. 25—Sept. 22	no	13 Week
			Aug. 18—Sept. 29	no	12 Week
			Aug. 11—Oct. 6	no	11 Week
			Aug. 5 —Oct. 13	no	10 Week
35-40°	Aug. 18	Sept. 8	None	no	15 Week
			Sept. 1 —Sept. 15	no	14 Week
			Aug. 25—Sept. 22	no	13 Week
			Aug. 18—Sept. 29	no	12 Week
			Aug. 18—Oct. 6	no	11 Week
			Aug. 18—Oct. 13	no	10 Week
30-35°	Aug. 25	Sept. 15	Aug. 25—Sept. 22	no	13 Week
			Aug. 25—Sept. 29	no	12 Week
			Aug. 25—Oct. 6	no	11 Week
			Aug. 25—Oct. 13	no	10 Week
25-30°	Aug. 25	Sept. 15	Aug. 25—Sept. 29	no	12 Week
			Aug. 25—Oct. 6	no	11 Week
			Aug. 25—Oct. 13	no	10 Week

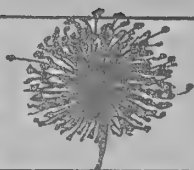
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	15 Week	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Dec. White Smith's White	Chattanooga December Glory	Marketeer	Ind. White Crystal Queen Fred Shoesmith
	P	Revelation Snow Talmeda Ill. Cascade	Silversmith Snowcap White Riviera Elegance	Acclaim Icecap Illini Alba Illini Starlet Satellite Snowcrest	Silvercrest Illini Glacier Illini Peace Fortune	Highbrow Paramount Belray Surfside Carrara
YELLOW	S		Chalice Tobin's Yellow Meteore	Dk. Yel. Chat'n'ga Yel. Chattanooga Golden Pearson	Harvester Marie DePetris	Imp. Ind. Yel. Yellow Mefo Gol. Shoesmith
	P	Siren Yuleflame Yel. Snow	Yellow Riviera Shamrock Vibrant Gol. Elegance Sun Valley	Gold. Acclaim Dk. Yel. Sat. Coronation Yel. Snowcrest Corsair	Highlander Illini Wampum Yellow Fortune Omega Yellow Galaxy	Yel. Highbrow Etude Forty Niner Lollipop Yel. Param'nt
BRONZE & RED	S			Oak Leaf Br. Peter John	Balcombe Perf. Calvert's Gold	Ind. Bronze Copper Queen
	P		Br. Riviera Topaz Christ. Greet'gs Merrymaker Poinsettia	Christmas Star Flame Minstrel Dk. Br. Minstrel Red Minstrel	Galaxy Orange Galaxy Holiday Crackerjack	Rusticon Thelma Rubaiyat Br. Jubilation
PINK	S			Pink Peter John Dk. Pk. Pet. John	Calvert's Pink	Ind. Pink Orchid Queen
	P		Riviera Rosalind Defiance Alvoda	Eminence Debutante Minstrel Imp. Minstrel	Delmar Valencia Heritage	Jubilation Magic Celebrity Staccato

S—Standard

P—Pompon



## Year-Round Chrysanthemum Flowering Schedule

**BLOOM DECEMBER 29, 1958**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-45°	Aug. 11	Sept. 1	None	no	15 Week
			Sept. 1 —Sept. 22	no	14 Week
			Aug. 25—Sept. 29	no	13 Week
			Aug. 18—Oct. 6	no	12 Week
			Aug. 11—Oct. 13	no	11 Week
			Aug. 11—Oct. 20	no	10 Week
35-40°	Aug. 18	Sept. 8	None	no	15 Week
			Sept. 1 —Sept. 22	no	14 Week
			Aug. 25—Sept. 29	no	13 Week
			Aug. 18—Oct. 6	no	12 Week
			Aug. 18—Oct. 13	no	11 Week
			Aug. 18—Oct. 20	no	10 Week
30-35°	Aug. 25	Sept. 25	Aug. 25—Sept. 29	no	13 Week
			Aug. 25—Oct. 6	no	12 Week
			Aug. 25—Oct. 13	no	11 Week
			Aug. 25—Oct. 20	no	10 Week
25-30°	Sept. 1	Sept. 22	Sept. 1 —Oct. 6	no	12 Week
			Sept. 1 —Oct. 13	no	11 Week
			Sept. 1 —Oct. 20	no	10 Week

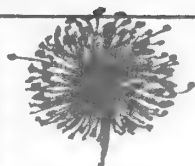
\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		15 Week	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S			Dec. White Smith's White	Chattanooga December Glory	Marketeer	Ind. White Crystal Queen Fred Shoemith
	P	Revelation Snow Talmeda Ill. Cascade	Silversmith Snowcap White Riviera Elegance	Acclaim Icecap Illini Alba Illini Starlet Satellite Snowcrest	Silvercrest Illini Glacier Illini Peace Fortune	Highbrow Paramount Belray Surfside Carrara	Whitotop Iceberg Illini Igloo Shasta Illini Snowdrift
YELLOW	S			Chalice Tobin's Yellow Meteore	Dk. Yel. Chat'n'ga Yel. Chattanooga Golden Pearson	Harvester Marie DePetris	Imp. Ind. Yel. Yellow Mefo Gol. Shoemith
	P	Siren Yuleflame Yel. Snow	Yellow Riviera Shamrock Vibrant Gol. Elegance Sun Valley	Gold. Acclaim Dk. Yel. Sat. Coronation Yel. Snowcrest Corsair	Highlander Illini Wampum Yellow Fortune Omega Yellow Galaxy	Yel. Highbow Etude Forty Niner Lollipop Yel. Paramount	Yellowtop Yel. Beauregard Yellow Shasta Yellow Igloo Heyday
BRONZE OR RED	S				Oak Leaf Br. Peter John	Balcombe Perf. Calvert's Gold	Ind. Bronze Copper Queen
	P		Bronze Riviera Topaz Christ. Greet'gs Merrymaker Poinsettia	Christmas Star Flame Minstrel Dk. Br. Minstrel Red Minstrel	Galaxy Orange Galaxy Holiday Crackerjack	Rusticon Thelma Rubaiyat Br. Jubilation	Beauregard Climax Giltglow Rubicon Br. Masterpiece
PINK	S				Pink Peter John Dk. Pk. Pet. John	Calvert's Pink	Ind. Pink Orchid Queen
	P		Riviera Rosalind Defiance Alvoda	Eminence Debutante Minstrel Imp. Minstrel	Delmar Valencia Heritage	Jubilation Magic Celebrity Staccato	Portrait Profile Rose Mast'p'ce Cheerful

S—Standard

P—Pompon



## Chrysanthemum Pot Plant Culture



*Pink Deluxe*

High quality pot plants can only be grown when all cultural conditions are optimum. By optimum conditions we refer particularly to the basic conditions of a good soil, disease-free cuttings, the absence of any checks in growth from cutting to the mature flowering plant, adequate means of temperature control and the selection of the right varieties.

### Soil

A good fibrous silt loam directly from the field, to which one-third to one-half of well-rotted manure or German peat has been added, plus an application of super-phosphate will give excellent results. Steam sterilization of the soil is advisable. You can plant immediately after steaming, provided you water heavily after planting the cuttings. Some growers are getting extra quick root action by using a top dressing of one-half inch of German peat over their regular soil mixture in each pot and planting through this mulch of peat. It saves on watering and produces more breaks after pinching.

### Watering and Humidity

After planting, water thoroughly to set the soil around the roots. Repeat this type of watering when the soil gets dry. Organic matter in the soil will facilitate watering and will tend to avoid extreme fluctuations in moisture supply. You can overwater a chrysanthemum as easily as a poinsettia plant. Overwatering will rot the roots, and the tops will take on a very yellow color.

For best results grow all potted chrysanthemums under glass. Do not shade the glass any more than necessary. Usually a light shade is necessary in mid-summer. Shade on the glass is only there for the convenience of the grower and not for the requirements of the plant. Keep humidity in the house by wetting down benches and walks, and by an occasional syring over the plants.

### Fertilizing

The foliage should retain a bright green luster throughout the life of the plant. The lower leaves should never

be allowed to turn a light green due to low fertility. A strong well-grown pot plant is a well-fed plant. Pot plants should be fed more frequently than those grown in a bench, as constant leaching lowers the nutrient level in pots faster than in bench culture.

Liquid fertilizers are very effective. Weekly feedings have produced excellent results. After the cuttings are planted, water the plants in with a weak solution (starter solution) of a complete soluble fertilizer and continue to feed weekly thereafter. Last feeding should be made when the plants are ready to sell. Maintain continuous and accurate feedings during the winter as well as during the remainder of the year. During the winter months cut the fertilizer concentration to 1 ounce to 8 gallons of water.

Feeding everytime you water with a Fert-O-Ject has proven to be very reliable method of fertilizing. Tests at Ohio State University confirmed this. They had the best results when plants were fertilized (1 oz. to 15 gallons) each time they were watered.

### Temperature

The optimum night temperature is 65 degrees. Day temperatures should be 75 to 85 degrees when the light intensity is high and 70 degrees during cloudy days. Heat checks develop when the night temperatures reach 90 degrees or higher. This check is very similar to the check that develops when plants are taken out of short-day treatment too early or when the black cloth treatment is missed too often. The only practical way to overcome this heat check is to install air conditioning to lower the temperatures. Growing the crop at less than a 65 degree night temperature results in uneven and delayed flowering. A gradual temperature drop to 55 degrees after buds show color is advisable for some pink and bronze varieties.

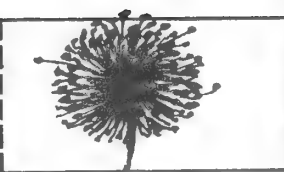
### Shading and Disbudding

Use same procedure as for cut flower crop. Black cloth treatment should continue until the buds are taken. The last pinch is usually made the same day short-day treatment is started. However, if you are troubled with tall potted plants, delay the last pinch 10 to 14 days after starting the shading program. Disbud each shoot to one bud when buds are large enough to handle.



*Snow Crystal*





## Chrysanthemum Pot Plant Culture



*Incurved Delaware*

### Planting and Pinching

Plant the rooted cuttings which have been graded for height and stem diameter directly into the finishing pot. Rhizoctonia will develop in the stem when the cuttings are planted too deeply. It is better to plant the cuttings around the pot rather than the four with one in the center practice. Planting the cuttings on an angle will increase the number of breaks that develop after the pinch.

**No-Pinch Method.** Plant 7 to 9 cuttings in a 6-inch pot and give short day treatment immediately. The blooms will be very large and the stems will be much stronger than when growing pinched plants. The Indianapolis varieties are used in 8-inch pots, 10 cuttings per pot with no pinch, to provide premium plants.

**Single-Pinch Method.** The most practical method of growing potted plants today. It is much faster and produces a very uniform plant with strong stems. Plant 5 cuttings of Bonnaffon Deluxe or 6 cuttings of the other varieties in a 6-inch pot. Pinch the plants high in the soft growth according to the schedule found in the year-round program.

The term short, medium and tall treatment refers to the height of the plants and different treatments are given so as to make all varieties about the same

height when ready to sell. Wilson's White is given the short treatment by giving the plant 7 to 14 long days after the pinch before starting the short day treatment. With varieties like Bonnaffon Deluxe we give them the medium treatment, that is short days, the day we pinch. The tall treatment includes varieties such as Little America and Sunburst which receive 7 to 14 short days before pinching. Our year-round schedule takes this into consideration so that your plants should finish all about the same height.

**Two-Pinch Method.** The most common method a few years ago and still used some for Fall bloom, especially where larger plants are wanted. Plant 4 or 5 cuttings in 6-inch pots; 4 to 6 cuttings in 7-inch, and 7 to 9 cuttings in 8-inch pots. Pinch the plants the first time 14 days after planting and wait 21 days and pinch the second time. Long-day treatment should be maintained either naturally or through the use of additional light during this period. Short-day treatment should start at the time of the second pinch.

**Modified Two-Pinch Method.** This cultural method is recommended for those varieties that grow too tall or those which do not have sufficient number of blooms when grown with a single-pinch method. Queen's Lace, Royal Bronze, Little America and Copperhead, also the garden varieties for spring pot sales are benefited when grown with this modified two-pinch method. After the plants have been established give them seven short days before making the first pinch. Continue the short day treatment, pinch the second time 21 to 28 days later, depending on the time of year. This second pinch will not delay the flowering very much more than one week but will keep the plants much shorter with more blooms than if not given this second pinch.

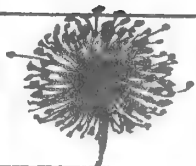
**What causes tall plants?** Many factors contribute to this excessive growth. 1. Crowding. 2. Growing in a cool 60 degrees. 3. Night temperatures over 90 degrees. 4. Not applying black cloth regularly each night. 5. Growing with too much shade on glass. 6. Giving too many long days before pinching, then pinching too high. 7. Variety.



*Mermaid*



*Snowclad*



## Chrysanthemum Pot Plant Culture

### Garden Mum Pot Plants for Mother's Day

Garden mum plants in full bloom make ideal potted plants for Mother's Day. This should be a valuable addition to the list of spring pot plants. For best results, 5 cuttings should be planted in a 6-inch pot or 2 cuttings in a 4-inch pot. After these pot plants are

through flowering, they should be cut back to within 3 inches of the soil level and planted into the garden. These same plants will bloom again in the fall.

Many growers have greatly increased their sale of garden chrysanthemums by having collections in bloom during the spring season. Cuttings are planted one to a 3-inch or 3½-inch pot using the procedure outlined below for Single-Pinch Method.

### SINGLE — PINCH METHOD\*

BLOOM	PLANT	LIGHTING PERIOD	PINCH	SHADE
<b>EASTER</b>	January 13	Jan. 13—Jan. 23	Jan. 23	no
<b>MOTHER'S DAY</b>	March 3	Mar. 3—Mar. 10	Mar. 10	Mar. 31
<b>DECORATION DAY</b>	March 17	Mar. 17—Mar. 24	Mar. 24	Mar. 31

\* For double-pinch method plant five weeks earlier and give first pinch seven days after planting. The second pinch should be made on the pinch date given in the single-pinch method. Be sure to light from the date of planting until date of second pinch.

### VARIETIES:

#### WHITE

Chris Columbus  
Ostosa  
Benora  
Maestro  
Larry  
Gardenia

#### YELLOW

Yellow Chris Columbus  
Moonlight  
Astoria  
Sunburst  
Blazing Gold

#### BRONZE & RED

W. P. Snyder  
Aglow  
Mona  
Dolli-Ette  
Toronto  
Morocco

#### PINK

Spellbound  
Mischief  
Joybringer  
Alert  
Fuchsia Fairy  
Cupid  
Citation  
Candytuft



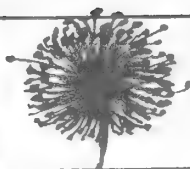
*Inca — 3-inch pot*



*Lee-Ette — 3-inch pot.*



*Dolli-Ette — 3-inch pot*



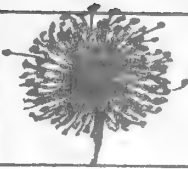
## Year-Round Pot Plant Schedule

### BLOOM JANUARY 5, 1959

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
Bonnaffon Deluxe..... Calvert's Gold.....	Oct. 6	Oct. 6 - Oct. 20	Oct. 20	no
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Oct. 6	Oct. 6 - Oct. 27	Oct. 20	no
Chalk Cliff..... Oregon..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Oct. 13	Oct. 13 - Oct. 27	Oct. 27	no
Queen's Lace..... Gold Lace.....	Oct. 13	Oct. 13 - Oct. 27	1st Nov. 3 2nd Dec. 1	no
Granite State.....	Oct. 13	Oct. 13 - Nov. 3	Oct. 27	no
Little America..... Snow Crystal..... Ind. Varieties.....	Oct. 20	Oct. 20 - Oct. 27	Nov. 3	no
Luna..... Snowclad..... Blue Ribbon..... Queen of Pinks.....	Oct. 20	Oct. 20 - Nov. 3	Nov. 3	no

### BLOOM JANUARY 12, 1959

Bonnaffon Deluxe..... Calvert's Gold.....	Oct. 13	Oct. 13 - Oct. 27	Oct. 27	no
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Oct. 13	Oct. 13 - Nov. 3	Oct. 27	no
Chalk Cliff..... Oregon..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Oct. 20	Oct. 20 - Nov. 3	Nov. 3	no
Queen's Lace..... Gold Lace.....	Oct. 20	Oct. 20 - Nov. 3	1st Nov. 10 2nd Dec. 8	no
Granite State.....	Oct. 20	Oct. 20 - Nov. 10	Nov. 3	no
Little America..... Snow Crystal..... Ind. Varieties.....	Oct. 27	Oct. 27 - Nov. 3	Nov. 10	no
Luna..... Snowclad..... Blue Ribbon..... Queen of Pinks.....	Oct. 27	Oct. 27 - Nov. 10	Nov. 10	no



## Year-Round Pot Plant Schedule

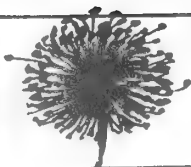
### BLOOM JANUARY 19, 1959

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
Bonnafton Deluxe..... Calvert's Gold.....	Oct. 20	Oct. 20 - Nov. 3	Nov. 3	no
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Oct. 20	Oct. 20 - Nov. 10	Nov. 3	no
Chalk Cliff..... Oregon..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Oct. 27	Oct. 27 - Nov. 10	Nov. 10	no
Queen's Lace..... Gold Lace.....	Oct. 27	Oct. 27 - Nov. 10	1st Nov. 17 2nd Dec. 15	no
Granite State .....	Oct. 27	Oct. 27 - Nov. 17	Nov. 10	no
Little America..... Ind. Varieties..... Snow Crystal.....	Nov. 3	Nov. 3 - Nov. 10	Nov. 17	no
Luna..... Snowclad..... Blue Ribbon..... Queen of Pinks.....	Nov. 3	Nov. 3 - Nov. 17	Nov. 17	no

### BLOOM JANUARY 26, 1959

Bonnafton Deluxe..... Calvert's Gold.....	Oct. 27	Oct. 27 - Nov. 10	Nov. 10	no
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Oct. 27	Oct. 27 - Nov. 17	Nov. 10	no
Chalk Cliff..... Oregon..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Nov. 3	Nov. 3 - Nov. 17	Nov. 17	no
Queen's Lace..... Gold Lace.....	Nov. 3	Nov. 3 - Nov. 17	1st Nov. 24 2nd Dec. 22	no
Granite State .....	Nov. 3	Nov. 3 - Nov. 24	Nov. 17	no
Little America..... Ind. Varieties..... Snow Crystal.....	Nov. 10	Nov. 10 - Nov. 17	Nov. 24	no
Luna..... Snowclad..... Blue Ribbon..... Queen of Pinks.....	Nov. 10	Nov. 10 - Nov. 24	Nov. 24	no





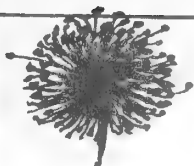
## Year-Round Pot Plant Schedule

### BLOOM FEBRUARY 2, 1959

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
<b>Bonnaffon Deluxe</b> ..... <b>Calvert's Gold</b> .....	Nov. 3	Nov. 3 - Nov. 17	Nov. 17	no
<b>Yellow Delaware</b> ..... <b>Delaware</b> ..... <b>Incurve Delaware</b> ..... <b>Mermaid</b> .....	Nov. 3	Nov. 3 - Nov. 24	Nov. 17	no
<b>Chalk Cliff</b> ..... <b>Oregon</b> ..... <b>Criterion</b> ..... <b>Humdinger</b> ..... <b>Personality</b> ..... <b>Pink Deluxe</b> ..... <b>Portrait Varieties</b> .....	Nov. 10	Nov. 10 - Nov. 24	Nov. 24	no
<b>Queen's Lace</b> ..... <b>Gold Lace</b> .....	Nov. 10	Nov. 10 - Nov. 24	1st Dec. 1 2nd Dec. 29	no
<b>Granite State</b> .....	Nov. 10	Nov. 10 - Dec. 1	Nov. 24	no
<b>Little America</b> ..... <b>Ind. Varieties</b> ..... <b>Snow Crystal</b> .....	Nov. 17	Nov. 17 - Nov. 24	Dec. 1	no
<b>Luna</b> ..... <b>Snowclad</b> ..... <b>Blue Ribbon</b> ..... <b>Queen of Pinks</b> .....	Nov. 17	Nov. 17 - Dec. 1	Dec. 1	no

### BLOOM FEBRUARY 9, 1959

<b>Bonnaffon Deluxe</b> ..... <b>Calvert's Gold</b> .....	Nov. 10	Nov. 10 - Nov. 24	Nov. 24	no
<b>Yellow Delaware</b> ..... <b>Delaware</b> ..... <b>Incurve Delaware</b> ..... <b>Mermaid</b> .....	Nov. 10	Nov. 10 - Dec 1	Nov. 24	no
<b>Chalk Cliff</b> ..... <b>Oregon</b> ..... <b>Criterion</b> ..... <b>Humdinger</b> ..... <b>Personality</b> ..... <b>Pink Deluxe</b> ..... <b>Portrait Varieties</b> .....	Nov. 17	Nov. 17 - Dec. 1	Dec. 1	no
<b>Queen's Lace</b> ..... <b>Gold Lace</b> .....	Nov. 17	Nov. 17 - Dec. 1	1st Dec. 8 2nd Jan. 5	no
<b>Granite State</b> .....	Nov. 17	Nov. 17 - Dec. 8	Dec. 8	no
<b>Little America</b> ..... <b>Ind. Varieties</b> ..... <b>Snow Crystal</b> .....	Nov. 24	Nov. 24 - Dec 1	Dec. 8	no
<b>Luna</b> ..... <b>Snowclad</b> ..... <b>Blue Ribbon</b> ..... <b>Queen of Pinks</b> .....	Nov. 24	Nov. 24 - Dec. 8	Dec. 8	no



## Year-Round Pot Plant Schedule

### BLOOM FEBRUARY 16, 1959

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
Bonnaffon Deluxe..... Calvert's Gold.....	Nov. 17	Nov. 17 - Dec. 1	Dec. 1	no
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Nov. 17	Nov. 17 - Dec. 8	Dec. 1	no
Chalk Cliff..... Oregon..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Nov. 24	Nov. 24 - Dec. 8	Dec. 8	no
Queen's Lace..... Gold Lace.....	Nov. 24	Nov. 24 - Dec. 8	1st Dec. 15 2nd Jan. 12	no
Granite State.....	Nov. 24	Nov. 24 - Dec. 15	Dec. 8	no
Little America..... Ind. Varieties..... Snow Crystal.....	Dec. 1	Dec. 1 - Dec. 8	Dec. 15	no
Luna..... Snowclad..... Blue Ribbon..... Queen of Pinks.....	Dec. 1	Dec. 1 - Dec. 16	Dec. 15	no

### BLOOM FEBRUARY 23, 1959

Bonnaffon Deluxe..... Calvert's Gold.....	Nov. 24	Nov. 24 - Dec. 8	Dec. 8	no
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Nov. 24	Nov. 24 - Dec. 15	Dec. 8	no
Chalk Cliff..... Oregon..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Dec. 1	Dec. 1 - Dec. 15	Dec. 15	no
Queen's Lace..... Gold Lace.....	Dec. 1	Dec. 1 - Dec. 15	1st Dec. 22 2nd Jan. 19	no
Granite State.....	Dec. 1	Dec. 1 - Dec. 22	Dec. 15	no
Little America..... Ind. Varieties..... Snow Crystal.....	Dec. 8	Dec. 8 - Dec 15	Dec. 22	no
Luna..... Snowclad..... Blue Ribbon..... Queen of Pinks.....	Dec. 8	Dec. 8 - Dec. 22	Dec. 22	no



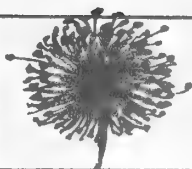
## Year-Round Pot Plant Schedule

### BLOOM MARCH 2, 1959

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
Bonnaffon Deluxe..... Calvert's Gold.....	Dec. 1	Dec. 1 - Dec. 15	Dec. 15	no
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Dec. 1	Dec. 1 - Dec. 22	Dec. 15	no
Chalk Cliff..... Oregon..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Dec. 8	Dec. 8 - Dec. 22	Dec. 22	no
Queen's Lace..... Gold Lace.....	Dec. 8	Dec. 8 - Dec. 22	1st Dec. 29 2nd Jan. 26	no
Granite State..... Wilson's White..... Wilson's Yellow.....	Dec. 8	Dec. 8 - Dec. 29	Dec. 22	no
Little America..... Ind. Varieties..... Snow Crystal.....	Dec. 15	Dec. 15 - Dec. 22	Dec. 29	no
Luna..... Monty..... Glamour..... Snowclad..... Blue Ribbon..... Queen of Pinks.....	Dec. 15	Dec. 15 - Dec. 29	Dec. 29	no
Gardenia..... Blazing Gold.....	Dec. 22	Dec. 22 - Jan. 5	Jan. 5	no

### BLOOM MARCH 9, 1959

Bonnaffon Deluxe..... Calvert's Gold.....	Dec. 8	Dec. 8 - Dec. 22	Dec. 22	no
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Dec. 8	Dec. 8 - Dec. 29	Dec. 22	no
Chalk Cliff..... Oregon..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Dec. 15	Dec. 15 - Dec. 29	Dec. 29	no
Queen's Lace..... Gold Lace.....	Dec. 15	Dec. 15 - Dec. 29	1st Jan. 5 2nd Feb. 2	no
Granite State..... Wilson's White..... Wilson's Yellow.....	Dec. 15	Dec. 15 - Jan. 5	Dec. 29	no
Little America..... Ind. Varieties..... Snow Crystal.....	Dec. 22	Dec. 22 - Dec. 29	Jan. 5	no
Glamour..... Luna..... Monty..... Snowclad..... Blue Ribbon..... Queen of Pinks.....	Dec. 22	Dec. 22 - Jan. 5	Jan. 5	no
Gardenia..... Blazing Gold.....	Dec. 29	Dec. 29 - Jan. 12	Jan. 12	no



## Year-Round Pot Plant Schedule

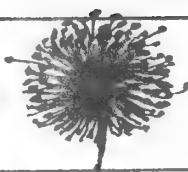
### BLOOM MARCH 16, 1959

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
Bonnaffon Deluxe..... Calvert's Gold.....	Dec. 15	Dec. 15 - Dec. 29	Dec. 29	no
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Dec. 15	Dec. 15 - Jan. 5	Dec. 29	no
Chalk Cliff..... Oregon..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Dec. 22	Dec. 22 - Jan. 5	Jan. 5	no
Queen's Lace..... Gold Lace..... Illini Snowdrift.....	Dec. 22	Dec. 22 - Jan. 5	1st Jan. 12 2nd Feb. 9	no
Granite State..... Wilson's White..... Wilson's Yellow.....	Dec. 22	Dec. 22 - Jan. 12	Jan. 5	no
Little America..... Ind. Varieties..... Snow Crystal.....	Dec. 29	Dec. 29 - Jan. 5	Jan. 12	no
Crest..... Glamour..... Luna..... Monty..... Snowclad..... Blue Ribbon..... Queen of Pinks.....	Dec. 29	Dec. 29 - Jan. 12	Jan. 12	no
Gardenia..... Blazing Gold.....	Jan. 5	Jan. 5 - Jan. 15	Jan. 15	no

### BLOOM MARCH 23, 1959

Bonnaffon Deluxe..... Calvert's Gold.....	Dec. 22	Dec. 22 - Jan. 5	Jan. 5	no
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Dec. 22	Dec. 22 - Jan. 12	Jan. 5	no
Chalk Cliff..... Oregon..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Dec. 29	Dec. 29 - Jan. 12	Jan. 12	no
Queen's Lace..... Illini Snowdrift..... Gold Lace.....	Dec. 29	Dec. 29 - Jan. 12	1st Jan. 19 2nd Feb. 16	no
Granite State..... Wilson's White..... Wilson's Yellow.....	Dec. 29	Dec. 29 - Jan. 19	Jan. 12	no
Little America..... Ind. Varieties..... Snow Crystal.....	Jan. 5	Jan. 5 - Jan. 12	Jan. 19	no
Crest..... Glamour..... Luna..... Monty..... Snowclad..... Blue Ribbon..... Queen of Pinks.....	Jan. 5	Jan. 5 - Jan. 15	Jan. 15	no
Gardenia..... Blazing Gold.....	Jan. 12	Jan. 12 - Jan. 22	Jan. 22	no





## Year-Round Pot Plant Schedule

### BLOOM MARCH 30, 1959

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
Bonnaffon Deluxe..... Calvert's Gold.....	Dec. 29	Dec. 29 - Jan. 12	Jan. 12	no
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Dec. 29	Dec. 29 - Jan. 19	Jan. 12	no
Chalk Cliff..... Oregon..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Jan. 5	Jan. 5 - Jan. 15	Jan. 15	no
Illini Snowdrift..... Queen's Lace..... Gold Lace.....	Jan. 5	Jan. 5 - Jan. 15	1st Jan. 22 2nd Feb. 19	no
Granite State..... Wilson's White..... Wilson's Yellow.....	Jan. 5	Jan. 5 - Jan. 22	Jan. 15	no
Little America..... Ind. Varieties..... Snow Crystal.....	Jan. 12	Jan. 12 - Jan. 15	Jan. 22	no
Crest..... Glamour..... Luna..... Monty..... Snowclad..... Blue Ribbon..... Queen of Pinks.....	Jan. 12	Jan. 12 - Jan. 22	Jan. 22	no
Gardenia..... Blazing Gold.....	Jan. 19	Jan. 19 - Jan. 29	Jan. 29	no

### BLOOM APRIL 7, 1958

Bonnaffon Deluxe.....	Jan. 6	Jan. 6 - Jan. 16	Jan. 16	no
Yellow Delaware..... Delaware.....	Jan. 6	Jan. 6 - Jan. 23	Jan. 16	no
Oregon..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Red Humdinger.....	Jan. 13	Jan. 13 - Jan. 23	Jan. 23	no
Illini Snowdrift..... Queen's Lace..... Gold Lace.....	Jan. 13	Jan. 13 - Jan. 23	1st Jan. 30 2nd Feb. 27	no
Granite State..... Wilson's White..... Wilson's Yellow.....	Jan. 13	Jan. 13 - Jan. 30	Jan. 23	no
Little America..... Ind. Varieties..... Portrait Varieties.....	Jan. 20	Jan. 20 - Jan. 23	Jan. 30	no
Luna..... Monty..... Blue Ribbon..... Queen of Pinks.....	Jan. 20	Jan. 20 - Jan. 30	Jan. 30	no
Gardenia..... Blazing Gold.....	Jan. 27	Jan. 27 - Feb. 6	Feb. 6	no



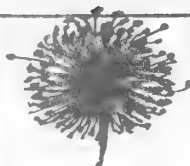
## Year-Round Pot Plant Schedule

### BLOOM APRIL 14, 1958

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
<b>Bonnafton Deluxe</b> .....	Jan. 13	Jan. 13 - Jan. 23	Jan. 23	Mar. 10
<b>Yellow Delaware</b> ..... <b>Delaware</b> .....	Jan. 13	Jan. 13 - Jan. 30	Jan. 23	Mar. 17
<b>Oregon</b> ..... <b>Yellow Calypso</b> ..... <b>Criterion</b> ..... <b>Humdinger</b> ..... <b>Personality</b> ..... <b>Red Humdinger</b> .....	Jan. 20	Jan. 20 - Jan. 30	Jan. 30	Mar. 17
<b>Illini Snowdrift</b> ..... <b>Queen's Lace</b> ..... <b>Yel. Illini Snowdrift</b> ..... <b>Gold Lace</b> .....	Jan. 20	Jan. 20 - Jan. 30	1st Feb. 6 2nd Mar. 6	Mar. 17
<b>Granite State</b> ..... <b>Wilson's White</b> ..... <b>Wilson's Yellow</b> .....	Jan. 20	Jan. 20 - Feb. 6	Jan. 30	Mar. 24
<b>Little America</b> ..... <b>Ind. Varieties</b> ..... <b>Portrait Varieties</b> .....	Jan. 27	Jan. 27 - Jan. 30	Feb. 6	Mar. 17
<b>Luna</b> ..... <b>Monty</b> ..... <b>Blue Ribbon</b> ..... <b>Queen of Pinks</b> .....	Feb. 3	Feb. 3 - Feb. 10	Feb. 10	Mar. 24
<b>Gardenia</b> ..... <b>Blazing Gold</b> .....	Feb. 10	Feb. 10 - Feb. 17	Feb. 17	Mar. 31

### BLOOM APRIL 21, 1958

<b>Bonnafton Deluxe</b> .....	Jan. 20	Jan. 20 - Jan. 30	Jan. 30	Mar. 10
<b>Yellow Delaware</b> ..... <b>Delaware</b> .....	Jan. 20	Jan. 20 - Feb. 6	Jan. 30	Mar. 17
<b>Oregon</b> ..... <b>Yellow Calypso</b> ..... <b>Red Humdinger</b> ..... <b>Criterion</b> ..... <b>Humdinger</b> ..... <b>Personality</b> .....	Feb. 3	Feb. 3 - Feb. 10	Feb. 10	Mar. 17
<b>Illini Snowdrift</b> ..... <b>Queen's Lace</b> ..... <b>Yel. Illini Snowdrift</b> ..... <b>Gold Lace</b> .....	Feb. 3	None	1st Feb. 10 2nd Mar. 10	Mar. 17
<b>Granite State</b> ..... <b>Wilson's White</b> ..... <b>Wilson's Yellow</b> .....	Feb. 3	Feb. 3 - Feb. 17	Feb. 10	Mar. 24
<b>Little America</b> ..... <b>Ind. Varieties</b> ..... <b>Portrait Varieties</b> .....	Feb. 3	None	Feb. 10	Mar. 17
<b>Luna</b> ..... <b>Monty</b> ..... <b>Blue Ribbon</b> ..... <b>Queen of Pinks</b> .....	Feb. 10	Feb. 10 - Feb. 17	Feb. 17	Mar. 24
<b>Gardenia</b> ..... <b>Blazing Gold</b> .....	Feb. 17	Feb. 17 - Feb. 24	Feb. 24	Mar. 31

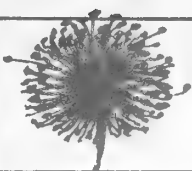


## Year-Round Pot Plant Schedule

**BLOOM APRIL 28, 1958**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
<b>Bonnafton Deluxe</b> .....	Feb. 3	Feb. 3 - Feb. 10	Feb. 10	Mar. 10
<b>Yellow Delaware</b> ..... <b>Delaware</b> .....	Feb. 3	Feb. 3 - Feb. 17	Feb. 10	Mar. 17
<b>Oregon</b> ..... <b>Yellow Calypso</b> ..... <b>Red Humdinger</b> ..... <b>Criterion</b> ..... <b>Humdinger</b> ..... <b>Personality</b> .....	Feb. 10	Feb. 10 - Feb. 17	Feb. 17	Mar. 17
<b>Illini Snowdrift</b> ..... <b>Queen's Lace</b> ..... <b>Gold Lace</b> .....	Feb. 10	None	1st Feb. 17 2nd Mar. 17	Mar. 17
<b>Granite State</b> ..... <b>Wilson's White</b> ..... <b>Wilson's Yellow</b> .....	Feb. 10	Feb. 10 - Feb. 24	Feb. 17	Mar. 24
<b>Little America</b> ..... <b>Ind. Varieties</b> ..... <b>Portrait Varieties</b> .....	Feb. 10	None	Feb. 17	Mar. 17
<b>Luna</b> ..... <b>Monty</b> ..... <b>Red Ethrelda</b> ..... <b>Blue Ribbon</b> ..... <b>Ethrelda</b> ..... <b>Queen of Pinks</b> ..... <b>* Reveille</b> .....	Feb. 17	Feb. 17 - Feb. 24	Feb. 24	Mar. 24
<b>* Benora</b> ..... <b>* Chris Columbus</b> ..... <b>* Gardenia</b> ..... <b>* Larry</b> ..... <b>* Maestro</b> ..... <b>* Ostosa</b> ..... <b>* Pilgrim</b> ..... <b>* Astoria</b> ..... <b>Blazing Gold</b> ..... <b>* Sunburst</b> ..... <b>* Yel. Chris Columbus</b> ..... <b>* Yellow Spoon</b> ..... <b>* Aglow</b> ..... <b>Bayonne</b> ..... <b>* Coralhue</b> ..... <b>Dolli-Ette</b> ..... <b>* Lee-Ette</b> ..... <b>* Lipstick</b> ..... <b>* Mona</b> ..... <b>* Morocco</b> ..... <b>Mrs. DuPont</b> ..... <b>* Radiance</b> ..... <b>Resolute</b> ..... <b>* W. P. Snyder</b> ..... <b>* Alert</b> ..... <b>* Cupid</b> ..... <b>Fuchsia Fairy</b> ..... <b>* Joybringer</b> ..... <b>* Mischief</b> ..... <b>* Spellbound</b> .....	Feb. 24	Feb. 24 - Mar. 3	Mar. 3	Mar. 31

\*Recommended to follow with second tip pinch within three weeks.



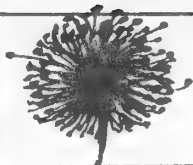
## Year-Round Pot Plant Schedule

**BLOOM MAY 5, 1958**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
<b>Bonnafton Deluxe</b> .....	Feb. 10	Feb. 10 - Feb. 17	Feb. 17	Mar. 10
<b>Yellow Delaware</b> ..... <b>Delaware</b> .....	Feb. 10	Feb. 10 - Feb. 24	Feb. 17	Mar. 17
<b>Oregon</b> ..... <b>Yellow Calypso</b> ..... <b>Red Humdinger</b> ..... <b>Criterion</b> ..... <b>Humdinger</b> ..... <b>Personality</b> .....	Feb. 17	Feb. 17 - Feb. 24	Feb. 24	Mar. 17
<b>Illini Snowdrift</b> ..... <b>Queen's Lace</b> ..... <b>Gold Lace</b> .....	Feb. 17	None	1st Feb. 24 2nd Mar. 24	Mar. 17
<b>Granite State</b> ..... <b>Wilson's White</b> ..... <b>Wilson's Yellow</b> .....	Feb. 17	Feb. 17 - Mar. 3	Feb. 24	Mar. 24
<b>Little America</b> ..... <b>Ind. Varieties</b> ..... <b>Portrait Varieties</b> .....	Feb. 17	None	Feb. 24	Mar. 17
<b>Luna</b> ..... <b>Monty</b> ..... <b>Red Ethrelda</b> ..... <b>Blue Ribbon</b> ..... <b>Ethrelda</b> ..... <b>Queen of Pinks</b> ..... <b>*Reveille</b> .....	Feb. 24	Feb. 24 - Mar. 3	Mar. 3	Mar. 24
<b>*Benora</b> ..... <b>*Chris Columbus</b> ..... <b>*Gardenia</b> ..... <b>*Larry</b> ..... <b>*Maestro</b> ..... <b>*Ostosa</b> ..... <b>*Pilgrim</b> ..... <b>*Astoria</b> ..... <b>Blazing Gold</b> ..... <b>*Sunburst</b> ..... <b>*Yel. Chris Columbus</b> ... <b>*Yellow Spoon</b> ..... <b>*Aglow</b> ..... <b>*Coralhue</b> ..... <b>Dolli-Ette</b> ..... <b>*Lee-Ette</b> ..... <b>*Lipstick</b> ..... <b>*Mona</b> ..... <b>*Morocco</b> ..... <b>Mrs. DuPont</b> ..... <b>*Radiance</b> ..... <b>Resolute</b> ..... <b>*W. P. Snyder</b> ..... <b>*Aleri</b> ..... <b>*Cupid</b> ..... <b>Fuchsia Fairy</b> ..... <b>*Joybringer</b> ..... <b>*Mischief</b> ..... <b>*Spellbound</b> .....	Mar. 3	Mar. 3 - Mar. 10	Mar. 10	Mar. 31

\*Recommended to follow with second tip pinch within three weeks.





## Year-Round Pot Plant Schedule

**BLOOM MAY 12, 1958**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
<b>Bonnaffon Deluxe</b> .....	Feb. 17	Feb. 17 - Feb. 24	Feb. 24	Mar. 10
<b>Yellow Delaware</b> ..... <b>Delaware</b> .....	Feb. 17	Feb. 17 - Mar. 3	Feb. 24	Mar. 17
<b>Oregon</b> ..... <b>Yellow Calypso</b> ..... <b>Red Humdinger</b> ..... <b>Criterion</b> ..... <b>Humdinger</b> ..... <b>Personality</b> .....	Feb. 24	Feb. 24 - Mar. 3	Mar. 3	Mar. 17
<b>Illini Snowdrift</b> ..... <b>Queen's Lace</b> ..... <b>Gold Lace</b> .....	Feb. 24	None	1st Mar. 3 2nd Mar. 31	Mar. 17
<b>Granite State</b> ..... <b>Wilson's White</b> ..... <b>Wilson's Yellow</b> .....	Feb. 24	Feb. 23 - Mar. 10	Mar. 3	Mar. 24
<b>Little America</b> ..... <b>Ind. Varieties</b> ..... <b>Portrait Varieties</b> .....	Feb. 24	None	Mar. 3	Mar. 17
<b>Luna</b> ..... <b>Monty</b> ..... <b>Red Ethrelda</b> ..... <b>Blue Ribbon</b> ..... <b>Ethrelda</b> ..... <b>Queen of Pinks</b> ..... <b>* Reveille</b> .....	Mar. 3	Mar. 3 - Mar. 10	Mar. 10	Mar. 24
<b>* Benora</b> ..... <b>* Chris Columbus</b> ..... <b>* Gardenia</b> ..... <b>* Larry</b> ..... <b>* Maestro</b> ..... <b>* Ostosa</b> ..... <b>* Pilgrim</b> ..... <b>* Astoria</b> ..... <b>* Blazing Gold</b> ..... <b>* Sunburst</b> ..... <b>* Yel. Chris Columbus</b> ... <b>* Yellow Spoon</b> ..... <b>* Aglow</b> ..... <b>* Bayonne</b> ..... <b>* Coralhue</b> ..... <b>* Dolli-Ette</b> ..... <b>* Lee-Ette</b> ..... <b>* Lipstick</b> ..... <b>* Mona</b> ..... <b>* Morocco</b> ..... <b>* Mrs. DuPont</b> ..... <b>* Radiance</b> ..... <b>* Resolute</b> ..... <b>* W. P. Snyder</b> ..... <b>* Alert</b> ..... <b>* Cupid</b> ..... <b>* Fuchsia Fairy</b> ..... <b>* Joybringer</b> ..... <b>* Mischief</b> ..... <b>* Spellbound</b> .....	Mar. 10	Mar. 10 - Mar. 17	Mar. 17	Mar. 31

\*Recommended to follow with second tip pinch within three weeks.

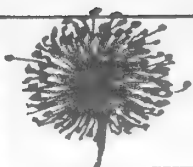


## Year-Round Pot Plant Schedule

**BLOOM MAY 19, 1958**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
<b>Bonnaffon Deluxe</b> .....	Feb. 24	Feb. 24 - Mar. 3	Mar. 3	Mar. 10
<b>Yellow Delaware</b> ..... <b>Delaware</b> .....	Feb. 24	Feb. 24 - Mar. 10	Mar. 3	Mar. 17
<b>Oregon</b> ..... <b>Yellow Calypso</b> ..... <b>Criterion</b> ..... <b>Personality</b> .....	Mar. 3	Mar. 3 - Mar. 10	Mar. 10	Mar. 17
<b>Illini Snowdrift</b> ..... <b>Queen's Lace</b> ..... <b>Gold Lace</b> .....	Mar. 3	None	1st Mar. 10 2nd Apr. 7	Mar. 17
<b>Granite State</b> ..... <b>Wilson's White</b> ..... <b>Wilson's Yellow</b> .....	Mar. 3	Mar. 3 - Mar. 17	Mar. 10	Mar. 24
<b>Ind. Varieties</b> ..... <b>Red Humdinger</b> ..... <b>Humdinger</b> ..... <b>Portrait Varieties</b> .....	Mar. 3	None	Mar. 10	Mar. 17
<b>Luna</b> ..... <b>Monty</b> ..... <b>Red Ethrelda</b> ..... <b>Blue Ribbon</b> ..... <b>Ethrelda</b> ..... <b>*Reveille</b> .....	Mar. 10	Mar. 10 - Mar. 17	Mar. 17	Mar. 24
<b>* Benora</b> ..... <b>* Chris Columbus</b> ..... <b>* Gardenia</b> ..... <b>* Larry</b> ..... <b>* Maestro</b> ..... <b>* Ostosa</b> ..... <b>* Pilgrim</b> ..... <b>* Astoria</b> ..... <b>Blazing Gold</b> ..... <b>* Sunburst</b> ..... <b>* Yel. Chris Columbus</b> ..... <b>* Yellow Spoon</b> ..... <b>* Aglow</b> ..... <b>Bayonne</b> ..... <b>* Coralhue</b> ..... <b>Dolli-Ette</b> ..... <b>* Lee-Ette</b> ..... <b>* Lipstick</b> ..... <b>* Mona</b> ..... <b>* Morocco</b> ..... <b>Mrs. DuPont</b> ..... <b>* Radiance</b> ..... <b>Resolute</b> ..... <b>* W. P. Snyder</b> ..... <b>* Alert</b> ..... <b>* Cupid</b> ..... <b>Fuchsia Fairy</b> ..... <b>* Joybringer</b> ..... <b>* Mischief</b> ..... <b>* Spellbound</b> .....	Mar. 17	Mar. 17 - Mar. 24	Mar. 24	Mar. 31

\*Recommended to follow with second tip pinch within three weeks.

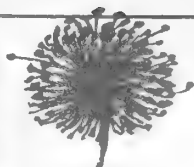


## Year-Round Pot Plant Schedule

**BLOOM MAY 26, 1958**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
<b>Bonnafton Deluxe</b> .....	Mar. 3	Mar. 3 - Mar. 10	Mar. 10	Mar. 10
<b>Yellow Delaware</b> ..... <b>Delaware</b> .....	Mar. 3	Mar. 3 - Mar. 17	Mar. 10	Mar. 17
<b>Oregon</b> ..... <b>Yellow Calypso</b> ..... <b>Criterion</b> ..... <b>Personality</b> .....	Mar. 10	Mar. 10 - Mar. 17	Mar. 17	Mar. 17
<b>Illini Snowdrift</b> ..... <b>Queen's Lace</b> ..... <b>Gold Lace</b> .....	Mar. 10	None	1st Mar. 17 2nd Apr. 24	Mar. 17
<b>Granite State</b> ..... <b>Wilson's White</b> ..... <b>Wilson's Yellow</b> .....	Mar. 10	Mar. 10 - Mar. 24	Mar. 17	Mar. 24
<b>Red Humdinger</b> ..... <b>Humdinger</b> ..... <b>Portrait Varieties</b> .....	Mar. 10	None	Mar. 17	Mar. 17
<b>Luna</b> ..... <b>Monty</b> ..... <b>Red Ethelda</b> ..... <b>Blue Ribbon</b> ..... <b>Ethelda</b> ..... <b>*Reveille</b> .....	Mar. 17	Mar. 17 - Mar. 24	Mar. 24	Mar. 24
<b>*Benora</b> ..... <b>*Chris Columbus</b> ..... <b>*Gardenia</b> ..... <b>*Larry</b> ..... <b>*Maestro</b> ..... <b>*Ostosa</b> ..... <b>*Pilgrim</b> ..... <b>*Astoria</b> ..... <b>Blazing Gold</b> ..... <b>*Sunburst</b> ..... <b>*Yel. Chris Columbus</b> .. <b>*Yellow Spoon</b> ..... <b>*Aglow</b> ..... <b>Bayonne</b> ..... <b>*Coralhue</b> ..... <b>Dolli-Ette</b> ..... <b>*Lee-Ette</b> ..... <b>*Lipstick</b> ..... <b>*Mona</b> ..... <b>*Morocco</b> ..... <b>Mrs. DuPont</b> ..... <b>*Radiance</b> ..... <b>Resolute</b> ..... <b>*W. P. Snyder</b> ..... <b>*Alert</b> ..... <b>*Cupid</b> ..... <b>Fuchsia Fairy</b> ..... <b>*Joybringer</b> ..... <b>*Mischief</b> ..... <b>*Spellbound</b> .....	Mar. 24	Mar. 24 - Mar. 31	Mar. 31	Mar. 31

\*Recommended to follow with second tip pinch within three weeks.



## Year-Round Pot Plant Schedule

### BLOOM JUNE 2, 1958

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
<b>Bonnaffon Deluxe</b> .....	Mar. 10	Mar. 10 - Mar. 17	Mar. 17	Mar. 17
<b>Yellow Delaware</b> .....	Mar. 10	Mar. 10 - Mar. 24	Mar. 17	Mar. 24
<b>Oregon</b> .....				
<b>Whitehouse</b> .....	Mar. 17	Mar. 17 - Mar. 24	Mar. 24	Mar. 24
<b>Yellow Calypso</b> .....				
<b>Illini Snowdrift</b> .....				
<b>Queen's Lace</b> .....	Mar. 17	None	1st Mar. 24 2nd Apr. 21	Mar. 24
<b>Gold Lace</b> .....				
<b>Granite State</b> .....				
<b>Wilson's White</b> .....	Mar. 17	Mar. 17 - Mar. 31	Mar. 24	Mar. 31
<b>Georgia</b> .....				
<b>Wilson's Yellow</b> .....				
<b>Red Humdinger</b> .....				
<b>Criterion</b> .....				
<b>Humdinger</b> .....	Mar. 17	None	Mar. 24	Mar. 24
<b>Portrait Varieties</b> .....				
<b>Personality</b> .....				
<b>Luna</b> .....				
<b>Monty</b> .....	Mar. 24	Mar. 24 - Mar. 31	Mar. 31	Mar. 31
<b>Blue Ribbon</b> .....				
<b>Gardenia</b> .....				
<b>Blazing Gold</b> .....	Mar. 31	Mar. 31 - Apr. 7	Apr. 7	Apr. 7

### BLOOM JUNE 9, 1958

<b>Bonnaffon Deluxe</b> .....	Mar. 17	Mar. 17 - Mar. 24	Mar. 24	Mar. 24
<b>Yellow Delaware</b> .....	Mar. 17	Mar. 17 - Mar. 31	Mar. 24	Mar. 31
<b>Oregon</b> .....				
<b>Whitehouse</b> .....	Mar. 24	Mar. 24 - Mar. 31	Mar. 31	Mar. 31
<b>Yellow Calypso</b> .....				
<b>Illini Snowdrift</b> .....				
<b>Queen's Lace</b> .....	Mar. 24	None	1st Mar. 31 2nd Apr. 28	Mar. 31
<b>Gold Lace</b> .....				
<b>Granite State</b> .....				
<b>Wilson's White</b> .....	Mar. 24	Mar. 24 - Apr. 7	Mar. 31	Apr. 7
<b>Georgia</b> .....				
<b>Wilson's Yellow</b> .....				
<b>Red Humdinger</b> .....				
<b>Criterion</b> .....				
<b>Humdinger</b> .....	Mar. 24	None	Mar. 31	Mar. 31
<b>Personality</b> .....				
<b>Portrait Varieties</b> .....				
<b>Luna</b> .....				
<b>Monty</b> .....	Mar. 31	Mar. 31 - Apr. 7	Apr. 7	Apr. 7
<b>Blue Ribbon</b> .....				
<b>Gardenia</b> .....				
<b>Blazing Gold</b> .....	Apr. 7	Apr. 7 - Apr. 14	Apr. 14	Apr. 14





## Year-Round Pot Plant Schedule

### BLOOM JUNE 16, 1958

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
<b>Bonnaffon Deluxe</b> .....	Mar. 24	Mar. 24 - Mar. 31	Mar. 31	Mar. 31
<b>Yellow Delaware</b> .....	Mar. 24	Mar. 24 - Apr. 7	Mar. 31	Apr. 7
<b>Oregon</b> .....	Mar. 31	Mar. 31 - Apr. 7	Apr. 7	Apr. 7
<b>Whitehouse</b> .....				
<b>Yellow Calypso</b> .....				
<b>Illini Snowdrift</b> .....	Mar. 31	None	1st Apr. 7	Apr. 7
<b>Queens' Lace</b> .....			2nd May 5	
<b>Gold Lace</b> .....				
<b>Granite State</b> .....	Mar. 31	Mar. 31 - Apr. 14	Apr. 7	Apr. 14
<b>Wilson's White</b> .....				
<b>Georgia</b> .....				
<b>Wilson's Yellow</b> .....				
<b>Red Humdinger</b> .....	Mar. 31	None	Apr. 7	Apr. 7
<b>Criterion</b> .....				
<b>Humdinger</b> .....				
<b>Personality</b> .....				
<b>Portrait Varieties</b> .....				
<b>Luna</b> .....	Apr. 7	Apr. 7 - Apr. 14	Apr. 14	Apr. 14
<b>Monty</b> .....				
<b>Blue Ribbon</b> .....				
<b>Gardenia</b> .....	Apr. 14	Apr. 14 - Apr. 21	Apr. 21	Apr. 21
<b>Blazing Gold</b> .....				

### BLOOM JUNE 23, 1958

<b>Bonnaffon Deluxe</b> .....	Mar. 31	Mar. 31 - Apr. 7	Apr. 7	Apr. 7
<b>Yellow Delaware</b> .....	Mar. 31	Mar. 31 - Apr. 14	Apr. 7	Apr. 14
<b>Oregon</b> .....	Apr. 7	Apr. 7 - Apr. 14	Apr. 14	Apr. 14
<b>Yellow Calypso</b> .....				
<b>Whitehouse</b> .....				
<b>Illini Snowdrift</b> .....	Apr. 7	None	1st Apr. 14	Apr. 14
<b>Queen's Lace</b> .....			2nd May 12	
<b>Gold Lace</b> .....				
<b>Granite State</b> .....	Apr. 7	Apr. 7 - Apr. 21	Apr. 14	Apr. 21
<b>Wilson's White</b> .....				
<b>Georgia</b> .....				
<b>Wilson's Yellow</b> .....				
<b>Red Humdinger</b> .....	Apr. 7	None	Apr. 14	Apr. 14
<b>Criterion</b> .....				
<b>Humdinger</b> .....				
<b>Personality</b> .....				
<b>Portrait Varieties</b> .....				
<b>Luna</b> .....	Apr. 14	Apr. 14 - Apr. 21	Apr. 21	Apr. 21
<b>Monty</b> .....				
<b>Blue Ribbon</b> .....				
<b>Gardenia</b> .....	Apr. 21	Apr. 21 - Apr. 28	Apr. 28	Apr. 28
<b>Blazing Gold</b> .....				



## Year-Round Pot Plant Schedule

### BLOOM JUNE 30, 1958

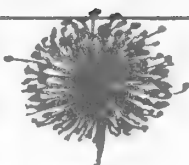
VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
<b>Bonnaffon Deluxe</b> .....	Apr. 7	Apr. 7 - Apr. 14	Apr. 14	Apr. 14
<b>Yellow Delaware</b> .....	Apr. 7	Apr. 7 - Apr. 21	Apr. 14	Apr. 21
<b>Oregon</b> ..... <b>Red Humdinger</b> ..... <b>Humdinger</b> ..... <b>Personality</b> ..... <b>Portrait</b> .....	Apr. 14	Apr. 14 - Apr. 21	Apr. 21	Apr. 21
<b>Wilson's White</b> ..... <b>Georgia</b> .....	Apr. 14	Apr. 14 - Apr. 28	Apr. 21	Apr. 28
<b>Luna</b> ..... <b>Blue Ribbon</b> .....	Apr. 21	Apr. 21 - Apr. 28	Apr. 28	Apr. 28
<b>Gardenia</b> ..... <b>Blazing Gold</b> .....	Apr. 28	Apr. 28 - May 5	May 5	May 5

### BLOOM JULY 7, 1958

<b>Bonnaffon Deluxe</b> .....	Apr. 14	Apr. 14 - Apr. 21	Apr. 21	Apr. 21
<b>Yellow Delaware</b> .....	Apr. 14	Apr. 14 - Apr. 28	Apr. 21	Apr. 28
<b>Oregon</b> ..... <b>Red Humdinger</b> ..... <b>Humdinger</b> ..... <b>Personality</b> ..... <b>Portrait</b> .....	Apr. 21	Apr. 21 - Apr. 28	Apr. 28	Apr. 28
<b>Wilson's White</b> ..... <b>Georgia</b> .....	Apr. 21	Apr. 21 - May 5	Apr. 28	May 5
<b>Luna</b> ..... <b>Blue Ribbon</b> .....	Apr. 28	Apr. 28 - May 5	May 5	May 5
<b>Gardenia</b> ..... <b>Blazing Gold</b> .....	May 5	May 5 - May 12	May 12	May 12

### BLOOM JULY 14, 1958

<b>Bonnaffon Deluxe</b> .....	Apr. 21	Apr. 21 - Apr. 28	Apr. 28	Apr. 28
<b>Yellow Delaware</b> .....	Apr. 21	Apr. 21 - May 5	Apr. 28	May 5
<b>Oregon</b> ..... <b>Red Humdinger</b> ..... <b>Humdinger</b> ..... <b>Personality</b> ..... <b>Portrait</b> .....	Apr. 28	Apr. 28 - May 5	May 5	May 5
<b>Wilson's White</b> ..... <b>Georgia</b> .....	Apr. 28	Apr. 28 - May 12	May 5	May 12
<b>Luna</b> ..... <b>Blue Ribbon</b> .....	May 5	May 5 - May 12	May 12	May 12
<b>Gardenia</b> ..... <b>Blazing Gold</b> .....	May 12	May 12 - May 19	May 19	May 19



## Year-Round Pot Plant Schedule

### BLOOM JULY 21, 1958

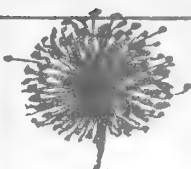
VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	PINCH	SHADE
Bonnaffon Deluxe.....	Apr. 28	May 5	May 5
Yellow Delaware.....	Apr. 28	May 5	May 12
Oregon..... Red Humdinger..... Humdinger..... Personality..... Portrait.....	May 5	May 12	May 12
Wilson's White..... Georgia.....	May 5	May 12	May 19
Luna..... Blue Ribbon.....	May 12	May 19	May 19
Gardenia..... Blazing Gold.....	May 19	May 26	May 26

### BLOOM JULY 28, 1958

Bonnaffon Deluxe.....	May 5	May 12	May 12
Yellow Delaware.....	May 5	May 12	May 19
Chalk Cliff..... Oregon..... Luminary..... Humdinger..... Pink Deluxe..... Portrait.....	May 12	May 19	May 19
Wilson's White.....	May 12	May 19	May 26
Crest..... Luna..... Snowclad..... Blue Ribbon..... Glamour.....	May 19	May 26	May 26
Blazing Gold.....	May 26	June 2	June 2

### BLOOM AUGUST 4, 1958

Bonnaffon Deluxe.....	May 12	May 19	May 19
Yellow Delaware..... Mermaid.....	May 12	May 19	May 26
Chalk Cliff..... Oregon..... Luminary..... Humdinger..... Pink Deluxe..... Portrait.....	May 19	May 26	May 26
Wilson's White.....	May 19	May 26	June 2
Crest..... Luna..... Snowclad..... Blue Ribbon..... Glamour.....	May 26	June 2	June 2
Blazing Gold.....	June 2	June 9	June 9



## Year-Round Pot Plant Schedule

### BLOOM AUGUST 11, 1958

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	PINCH	SHADE
Bonnaffon Deluxe.....	May 19	May 26	May 26
Yellow Delaware.....	May 19	May 26	June 2
Mermaid.....			
Chalk Cliff.....			
Luminary.....	May 26	June 2	June 2
Humdinger.....			
Pink Deluxe.....			
Portrait Varieties.....			
Wilson's White.....	May 26	June 2	June 9
Crest.....			
Luna.....			
Snowclad.....	June 2	June 9	June 9
Blue Ribbon.....			
Glamour.....			
Blazing Gold.....	June 9	June 16	June 16

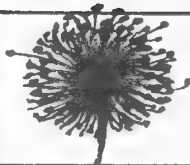
### BLOOM AUGUST 18, 1958

Bonnaffon Deluxe.....	May 26	June 2	June 2
Yellow Delaware.....			
Incurve Delaware.....	May 26	June 2	June 9
Mermaid.....			
Chalk Cliff.....			
Luminary.....			
Humdinger.....	June 2	June 9	June 9
Pink Deluxe.....			
Portrait Varieties.....			
Wilson's White.....	June 2	June 9	June 16
Crest.....			
Luna.....			
Snowclad.....	June 9	June 16	June 16
Blue Ribbon.....			
Glamour.....			
Blazing Gold.....	June 16	June 23	June 23

### BLOOM AUGUST 25, 1958

Bonnaffon Deluxe.....	June 2	June 9	June 2
Yellow Delaware.....			
Delaware.....			
Incurve Delaware.....	June 2	June 9	June 16
Mermaid.....			
Chalk Cliff.....			
Luminary.....			
Humdinger.....	June 9	June 16	June 16
Pink Deluxe.....			
Portrait Varieties.....			
Wilson's White.....	June 9	June 16	June 23
Crest.....			
Luna.....			
Snowclad.....	June 16	June 23	June 23
Blue Ribbon.....			
Glamour.....			
Blazing Gold.....	June 23	June 30	June 30





## Year-Round Pot Plant Schedule

### BLOOM SEPTEMBER 1, 1958

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	PINCH	SHADE
<b>Bonnafton Deluxe</b> .....	June 9	June 16	June 9
<b>Yellow Delaware</b> .....			
<b>Delaware</b> .....	June 9	June 16	June 23
<b>Incurve Delaware</b> .....			
<b>Mermaid</b> .....			
<b>Chalk Cliff</b> .....			
<b>Oregon</b> .....			
<b>Luminary</b> .....			
<b>Criterion</b> .....	June 16	June 23	June 23
<b>Humdinger</b> .....			
<b>Personality</b> .....			
<b>Pink Deluxe</b> .....			
<b>Portrait Varieties</b> .....			
<b>Wilson's White</b> .....			
<b>Wilson's Yellow</b> .....	June 16	June 23	June 30
<b>Barbara Fuller</b> .....			
<b>Royal Bronze</b> .....	June 23	1st June 30 2nd July 21	June 30
<b>Crest</b> .....			
<b>Luna</b> .....			
<b>Snowclad</b> .....	June 23	June 30	June 30
<b>Blue Ribbon</b> .....			
<b>Glamour</b> .....			
<b>Blazing Gold</b> .....			
<b>Bayonne</b> .....	June 30	July 7	July 7
<b>Resolute</b> .....			

### BLOOM SEPTEMBER 8, 1958

<b>Bonnafton Deluxe</b> .....	June 16	June 23	June 16
<b>Yellow Delaware</b> .....			
<b>Delaware</b> .....	June 16	June 23	June 30
<b>Incurve Delaware</b> .....			
<b>Chalk Cliff</b> .....			
<b>Oregon</b> .....			
<b>Luminary</b> .....			
<b>Criterion</b> .....			
<b>Humdinger</b> .....	June 23	June 30	June 30
<b>Mermaid</b> .....			
<b>Personality</b> .....			
<b>Pink Deluxe</b> .....			
<b>Portrait Varieties</b> .....			
<b>Wilson's White</b> .....			
<b>Wilson's Yellow</b> .....	June 23	June 30	July 7
<b>Barbara Fuller</b> .....			
<b>Royal Bronze</b> .....	June 30	1st July 7 2nd July 28	July 7
<b>Crest</b> .....			
<b>Luna</b> .....			
<b>Snowclad</b> .....	June 30	July 7	July 7
<b>Blue Ribbon</b> .....			
<b>Glamour</b> .....			
<b>Blazing Gold</b> .....			
<b>Bayonne</b> .....	July 7	July 14	July 14
<b>Resolute</b> .....			



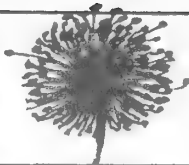
## Year-Round Pot Plant Schedule

### BLOOM SEPTEMBER 15, 1958

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	PINCH	SHADE
Bonnaffon Deluxe.....	June 23	June 30	June 23
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	June 23	June 30	July 7
Chalk Cliff..... Oregon..... Luminary..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	June 30	July 7	July 7
Wilson's White..... Wilson's Yellow..... Barbara Fuller.....	June 30	July 7	July 14
Royal Bronze.....	July 7	1st July 14 2nd Aug. 4	July 14
Crest..... Luna..... Snowclad..... Blue Ribbon..... Glamour.....	July 7	July 14	July 14
Blazing Gold..... Bayonne..... Resolute.....	July 14	July 21	July 21

### BLOOM SEPTEMBER 22, 1958

Bonnaffon Deluxe.....	June 30	July 7	June 30
Yellow Delaware..... Delaware..... Incurve Delaware.....	June 30	July 7	July 14
Chalk Cliff..... Oregon..... Luminary..... Criterion..... Humdinger..... Mermaid..... Personality..... Pink Deluxe..... Portrait Varieties.....	July 7	July 14	July 14
Wilson's White..... Wilson's Yellow..... Barbara Fuller.....	July 7	July 14	July 21
Royal Bronze.....	July 14	1st July 21 2nd Aug. 11	July 21
Crest..... Luna..... Snowclad..... Blue Ribbon..... Glamour..... Queen of Pinks.....	July 14	July 21	July 21
Blazing Gold..... Bayonne..... Resolute.....	July 21	July 28	July 28



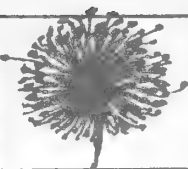
## Year-Round Pot Plant Schedule

### BLOOM SEPTEMBER 29, 1958

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	PINCH	SHADE
<b>Bonnaffon Deluxe</b> .....	July 7	July 14	July 7
<b>Yellow Delaware</b> .....			
<b>Delaware</b> .....	July 7	July 14	July 21
<b>Incurve Delaware</b> .....			
<b>Mermaid</b> .....			
<b>Chalk Cliff</b> .....			
<b>Oregon</b> .....			
<b>Luminary</b> .....			
<b>Criterion</b> .....	July 14	July 21	July 21
<b>Humdinger</b> .....			
<b>Personality</b> .....			
<b>Pink Deluxe</b> .....			
<b>Portrait Varieties</b> .....			
<b>Wilson's White</b> .....	July 14	July 21	July 28
<b>Wilson's Yellow</b> .....			
<b>Barbara Fuller</b> .....			
<b>Queen's Lace</b> .....			
<b>Gold Lace</b> .....	July 21	1st July 28 2nd Aug. 18	July 28
<b>Royal Bronze</b> .....			
<b>Crest</b> .....			
<b>Luna</b> .....			
<b>Monty</b> .....			
<b>Snowclad</b> .....	July 21	July 28	July 28
<b>Blue Ribbon</b> .....			
<b>Glamour</b> .....			
<b>Queen of Pinks</b> .....			
<b>Gardenia</b> .....			
<b>Blazing Gold</b> .....	July 28	Aug. 4	Aug. 4
<b>Bayonne</b> .....			
<b>Resolute</b> .....			

### BLOOM OCTOBER 6, 1958

<b>Bonnaffon Deluxe</b> .....	July 14	July 21	July 14
<b>Yellow Delaware</b> .....			
<b>Delaware</b> .....	July 14	July 21	July 28
<b>Incurve Delaware</b> .....			
<b>Mermaid</b> .....			
<b>Chalk Cliff</b> .....			
<b>Oregon</b> .....			
<b>Luminary</b> .....			
<b>Criterion</b> .....	July 21	July 28	July 28
<b>Humdinger</b> .....			
<b>Personality</b> .....			
<b>Pink Deluxe</b> .....			
<b>Portrait Varieties</b> .....			
<b>Wilson's White</b> .....	July 21	July 28	Aug. 4
<b>Wilson's Yellow</b> .....			
<b>Barbara Fuller</b> .....			
<b>Queen's Lace</b> .....			
<b>Gold Lace</b> .....	July 28	1st Aug. 4 2nd Aug. 25	Aug. 4
<b>Royal Bronze</b> .....			
<b>Crest</b> .....			
<b>Luna</b> .....			
<b>Monty</b> .....			
<b>Snowclad</b> .....	July 29	Aug. 4	Aug. 4
<b>Blue Ribbon</b> .....			
<b>Glamour</b> .....			
<b>Queen of Pinks</b> .....			
<b>Gardenia</b> .....			
<b>Blazing Gold</b> .....	Aug. 4	Aug. 11	Aug. 11
<b>Bayonne</b> .....			
<b>Resolute</b> .....			



## Year-Round Pot Plant Schedule

**BLOOM OCTOBER 13, 1958**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
<b>Bonnafton Deluxe</b> .....	July 21	None	July 28	July 21
<b>Yellow Delaware</b> .....	July 21	None	July 28	Aug. 4
<b>Delaware</b> .....				
<b>Incurve Delaware</b> .....				
<b>Mermaid</b> .....				
<b>Chalk Cliff</b> .....	July 28	None	Aug. 4	Aug. 4
<b>Oregon</b> .....				
<b>Luminary</b> .....				
<b>Yellow Calypso</b> .....				
<b>Bronze Calypso</b> .....				
<b>Red Humdinger</b> .....				
<b>Criterion</b> .....				
<b>Humdinger</b> .....				
<b>Personality</b> .....				
<b>Pink Deluxe</b> .....				
<b>Portrait Varieties</b> .....				
<b>Granite State</b> .....	July 28	July 28 - Aug. 11	Aug. 4	Aug. 11
<b>Wilson's White</b> .....				
<b>Wilson's Yellow</b> .....				
<b>Barbara Fuller</b> .....				
<b>Queen's Lace</b> .....	Aug. 4	None	1st Aug. 11 2nd Sept. 1	Aug. 11
<b>Gold Lace</b> .....				
<b>Royal Bronze</b> .....				
<b>Crest</b> .....	Aug. 4	Aug. 4 - Aug. 11	Aug. 11	Aug. 11
<b>Luna</b> .....				
<b>Monty</b> .....				
<b>Snowclad</b> .....				
<b>Blue Ribbon</b> .....				
<b>Glamour</b> .....				
<b>Queen of Pinks</b> .....				
<b>Gardenia</b> .....	Aug. 11	Aug. 11 - Aug. 18	Aug. 18	Aug. 18
<b>Blazing Gold</b> .....				
<b>Bayonne</b> .....				
<b>Resolute</b> .....				

**BLOOM OCTOBER 20, 1958**

<b>Bonnafton Deluxe</b> .....	July 28	None	Aug. 4	Aug. 4
<b>Yellow Delaware</b> .....	July 28	July 28 - Aug. 11	Aug. 4	Aug. 11
<b>Delaware</b> .....				
<b>Incurve Delaware</b> .....				
<b>Mermaid</b> .....				
<b>Chalk Cliff</b> .....	Aug. 4	Aug. 4 - Aug. 11	Aug. 11	Aug. 11
<b>Oregon</b> .....				
<b>Luminary</b> .....				
<b>Yellow Calypso</b> .....				
<b>Bronze Calypso</b> .....				
<b>Red Humdinger</b> .....				
<b>Criterion</b> .....				
<b>Humdinger</b> .....				
<b>Personality</b> .....				
<b>Pink Deluxe</b> .....				
<b>Portrait Varieties</b> .....				
<b>Granite State</b> .....	Aug. 4	Aug. 4 - Aug. 18	Aug. 11	Aug. 18
<b>Wilson's White</b> .....				
<b>Wilson's Yellow</b> .....				
<b>Barbara Fuller</b> .....				
<b>Queen's Lace</b> .....	Aug. 11	Aug. 11 - Aug. 18	1st Aug. 18 2nd Sept. 8	Aug. 18
<b>Gold Lace</b> .....				
<b>Royal Bronze</b> .....				
<b>Crest</b> .....	Aug. 11	Aug. 11 - Aug. 18	Aug. 18	Aug. 18
<b>Luna</b> .....				
<b>Monty</b> .....				
<b>Snowclad</b> .....				
<b>Blue Ribbon</b> .....				
<b>Glamour</b> .....				
<b>Handsome</b> .....				
<b>Queen of Pinks</b> .....				
<b>Gardenia</b> .....	Aug. 18	Aug. 18 - Aug. 25	Aug. 25	Aug. 25
<b>Blazing Gold</b> .....				
<b>Bayonne</b> .....				
<b>Resolute</b> .....				





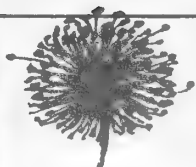
## Year-Round Pot Plant Schedule

### BLOOM OCTOBER 27, 1958

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
<b>Bonnafton Deluxe</b> .....	Aug. 4	None	Aug. 11	Aug. 11
<b>Yellow Delaware</b> ..... <b>Delaware</b> ..... <b>Incurve Delaware</b> ..... <b>Mermaid</b> .....	Aug. 4	Aug. 4 - Aug. 18	Aug. 11	Aug. 18
<b>Chalk Cliff</b> ..... <b>Oregon</b> ..... <b>Luminary</b> ..... <b>Yellow Calypso</b> ..... <b>Bronze Calypso</b> ..... <b>Red Humdinger</b> ..... <b>Criterion</b> ..... <b>Humdinger</b> ..... <b>Personality</b> ..... <b>Pink Deluxe</b> ..... <b>Portrait Varieties</b> .....	Aug. 11	Aug. 11 - Aug. 18	Aug. 18	Aug. 18
<b>Granite State</b> ..... <b>Wilson's White</b> ..... <b>Wilson's Yellow</b> ..... <b>Barbara Fuller</b> .....	Aug. 11	Aug. 11 - Aug. 25	Aug. 18	Aug. 25
<b>Queen's Lace</b> ..... <b>Gold Lace</b> ..... <b>Royal Bronze</b> .....	Aug. 18	Aug. 18 - Aug. 25	1st Aug. 25 2nd Sept. 15	Aug. 25
<b>Crest</b> ..... <b>Luna</b> ..... <b>Monty</b> ..... <b>Snowclad</b> ..... <b>Blue Ribbon</b> ..... <b>Glamour</b> ..... <b>Handsome</b> ..... <b>Queen of Pinks</b> .....	Aug. 18	Aug. 18 - Aug. 25	Aug. 25	Aug. 25

### BLOOM NOVEMBER 3, 1958

<b>Bonnafton Deluxe</b> .....	Aug. 11	Aug. 11 - Aug. 18	Aug. 18	Aug. 18
<b>Yellow Delaware</b> ..... <b>Delaware</b> ..... <b>Incurve Delaware</b> ..... <b>Mermaid</b> .....	Aug. 11	Aug. 11 - Aug. 25	Aug. 18	Aug. 25
<b>Chalk Cliff</b> ..... <b>Oregon</b> ..... <b>Luminary</b> ..... <b>Yellow Calypso</b> ..... <b>Bronze Calypso</b> ..... <b>Red Humdinger</b> ..... <b>Criterion</b> ..... <b>Humdinger</b> ..... <b>Personality</b> ..... <b>Pink Deluxe</b> ..... <b>Portrait Varieties</b> .....	Aug. 18	Aug. 18 - Aug. 25	Aug. 25	Aug. 25
<b>Granite State</b> ..... <b>Wilson's White</b> ..... <b>Wilson's Yellow</b> ..... <b>Barbara Fuller</b> .....	Aug. 18	Aug. 18 - Sept. 1	Aug. 25	Sept. 1
<b>Queen's Lace</b> ..... <b>Gold Lace</b> ..... <b>Royal Bronze</b> .....	Aug. 25	Aug. 25 - Sept. 1	1st Sept. 1 2nd Sept. 22	Sept. 1
<b>Crest</b> ..... <b>Luna</b> ..... <b>Monty</b> ..... <b>Snowclad</b> ..... <b>Blue Ribbon</b> ..... <b>Glamour</b> ..... <b>Handsome</b> ..... <b>Queen of Pinks</b> .....	Aug. 25	Aug. 25 - Sept. 1	Sept. 1	Sept. 1



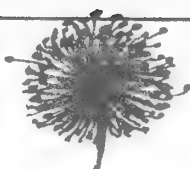
## Year-Round Pot Plant Schedule

**BLOOM NOVEMBER 10, 1958**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
Bonnaffon Deluxe..... Calvert's Gold..... Calvert's Pink.....	Aug. 18	Aug. 18 - Aug. 25	Aug. 25	Aug. 25
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Aug. 18	Aug. 18 - Sept. 1	Aug. 25	Sept. 1
Chalk Cliff..... Oregon..... Yellow Calypso..... Bronze Calypso..... Red Humdinger..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Aug. 25	Aug. 25 - Sept. 1	Sept. 1	Sept. 1
Granite State..... Wilson's White..... Wilson's Yellow..... Barbara Fuller.....	Aug. 25	Aug. 25 - Sept. 8	Sept. 1	no
Little America..... Snow Crystal..... Ind. Varieties.....	Aug. 25	Aug. 25 - Sept. 1	Sept. 8	Sept. 1
Queen's Lace..... Gold Lace..... Royal Bronze.....	Sept. 1	Sept. 1 - Sept. 8	1st Sept. 8 2nd Sept. 29	no
Crest..... Luna..... Monty..... Snowclad..... Blue Ribbon..... Glamour..... Handsome..... Queen of Pinks.....	Sept. 1	Sept. 1 - Sept. 10	Sept. 10	no

**BLOOM NOVEMBER 17, 1958**

Bonnaffon Deluxe..... Calvert's Gold..... Calvert's Pink.....	Aug. 25	Aug. 25 - Sept. 1	Sept. 1	Sept. 1
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Aug. 25	Aug. 25 - Sept. 8	Sept. 1	Sept. 8
Chalk Cliff..... Oregon..... Yellow Calypso..... Bronze Calypso..... Red Humdinger..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Sept. 1	Sept. 1 - Sept. 10	Sept. 10	Sept. 10
Granite State..... Wilson's White..... Wilson's Yellow..... Barbara Fuller.....	Sept. 1	Sept. 1 - Sept. 17	Sept. 10	no
Little America..... Snow Crystal..... Ind. Varieties.....	Sept. 1	Sept. 1 - Sept. 8	Sept. 15	Sept. 8
Queen's Lace..... Gold Lace..... Royal Bronze.....	Sept. 8	Sept. 8 - Sept. 15	1st Sept. 15 2nd Oct. 13	no
Crest..... Luna..... Monty..... Snowclad..... Blue Ribbon..... Glamour..... Handsome..... Queen of Pinks.....	Sept. 8	Sept. 8 - Sept. 17	Sept. 17	no



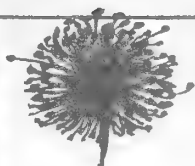
## Year-Round Pot Plant Schedule

### BLOOM NOVEMBER 24, 1958

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
Bonnaffon Deluxe..... Calvert's Gold..... Calvert's Pink.....	Sept. 1	Sept. 1 - Sept. 10	Sept. 10	Sept. 10
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Sept. 1	Sept. 1 - Sept. 17	Sept. 10	no
Chalk Cliff..... Oregon..... Yellow Calypso..... Bronze Calypso..... Red Humdinger..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Sept. 8	Sept. 8 - Sept. 17	Sept. 17	no
Granite State..... Wilson's White..... Wilson's Yellow..... Barbara Fuller.....	Sept. 8	Sept. 8 - Sept. 24	Sept. 17	no
Little America..... Snow Crystal..... Ind. Varieties.....	Sept. 8	Sept. 8 - Sept. 15	Sept. 22	no
Queen's Lace..... Gold Lace..... Royal Bronze.....	Sept. 15	Sept. 15 - Sept. 22	1st Sept. 22 2nd Oct. 20	no
Luna..... Monty..... Snowclad..... Blue Ribbon..... Glamour..... Handsome..... Queen of Pinks.....	Sept. 8	Sept. 8 - Sept. 20	Sept. 20	no

### BLOOM DECEMBER 1, 1958

Bonnaffon Deluxe..... Calvert's Gold..... Valentine..... Calvert's Pink.....	Sept. 8	Sept. 8 - Sept. 17	Sept. 17	no
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Sept. 8	Sept. 8 - Sept. 24	Sept. 17	no
Chalk Cliff..... Oregon..... Red Humdinger..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Sept. 8	Sept. 8 - Sept. 20	Sept. 20	no
Granite State..... Wilson's White..... Wilson's Yellow..... Barbara Fuller.....	Sept. 8	Sept. 8 - Sept. 27	Sept. 20	no
Little America..... Snow Crystal..... Ind. Varieties.....	Sept. 15	Sept. 15 - Sept. 22	Sept. 29	no
Queen's Lace..... Gold Lace..... Royal Bronze.....	Sept. 22	Sept. 22 - Sept. 29	1st Sept. 29 2nd Oct. 27	no
Luna..... Monty..... Snowclad..... Blue Ribbon..... Handsome..... Queen of Pinks.....	Sept. 15	Sept. 15 - Sept. 27	Sept. 27	no



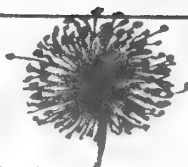
## Year-Round Pot Plant Schedule

### BLOOM DECEMBER 8, 1958

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
Bonnaffon Deluxe..... Calvert's Gold..... Valentine..... Calvert's Pink.....	Sept. 8	Sept. 8 - Sept. 20	Sept. 20	no
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Sept. 8	Sept. 8 - Sept. 27	Sept. 20	no
Chalk Cliff..... Oregon..... Red Humdinger..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Sept. 15	Sept. 15 - Sept. 27	Sept. 27	no
Granite State..... Wilson's White..... Wilson's Yellow.....	Sept. 15	Sept. 15 - Oct. 4	Sept. 27	no
Little America..... Snow Crystal..... Ind. Varieties.....	Sept. 22	Sept. 22 - Sept. 29	Oct. 6	no
Queen's Lace..... Gold Lace.....	Sept. 29	Sept. 29 - Oct. 6	1st Oct. 6 2nd Nov. 3	no
Luna..... Monty..... Snowclad..... Blue Ribbon..... Handsome..... Queen of Pinks.....	Sept. 22	Sept. 22 - Oct. 4	Oct. 4	no

### BLOOM DECEMBER 15, 1958

Bonnaffon Deluxe..... Calvert's Gold..... Valentine..... Calvert's Pink.....	Sept. 15	Sept. 15 - Sept. 27	Sept. 27	no
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Sept. 15	Sept. 15 - Oct. 4	Sept. 27	no
Chalk Cliff..... Oregon..... Red Humdinger..... Criterion..... Humdinger..... Personality..... Pink Deluxe..... Portrait Varieties.....	Sept. 22	Sept. 22 - Oct. 4	Oct. 4	no
Granite State..... Wilson's White..... Wilson's Yellow.....	Sept. 22	Sept. 22 - Oct. 11	Oct. 4	no
Little America..... Snow Crystal..... Ind. Varieties.....	Sept. 29	Sept. 29 - Oct. 6	Oct. 13	no
Queen's Lace..... Gold Lace.....	Oct. 6	Oct. 6 - Oct. 13	1st Oct. 13 2nd Nov. 10	no
Luna..... Monty..... Snowclad..... Blue Ribbon..... Handsome..... Queen of Pinks.....	Sept. 29	Sept. 29 - Oct. 13	Oct. 13	no



## Year-Round Pot Plant Schedule

### BLOOM DECEMBER 22, 1958

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
Bonnaffon Deluxe..... Calvert's Gold..... Valentine..... Calvert's Pink.....	Sept. 22	Sept. 22 - Oct. 4	Oct. 4	no
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Sept. 22	Sept. 22 - Oct. 11	Oct. 4	no
Chalk Cliff..... Oregon..... Red Humdinger..... Criterion..... Personality..... Pink Deluxe..... Portrait Varieties.....	Sept. 29	Sept. 29 - Oct. 13	Oct. 13	no
Granite State..... Wilson's White..... Wilson's Yellow.....	Sept. 29	Sept. 29 - Oct. 20	Oct. 13	no
Little America..... Snow Crystal..... Ind. Varieties.....	Oct. 6	Oct. 6 - Oct. 13	Oct. 20	no
Queen's Lace..... Gold Lace.....	Oct. 6	Oct. 6 - Oct. 20	1st Oct. 20 2nd Nov. 17	no
Luna..... Monty..... Snowclad..... Blue Ribbon..... Handsome..... Queen of Pinks.....	Oct. 6	Oct. 6 - Oct. 20	Oct. 20	no

### BLOOM DECEMBER 29, 1958

Bonnaffon Deluxe..... Calvert's Gold..... Valentine..... Calvert's Pink.....	Sept. 29	Sept. 29 - Oct. 13	Oct. 13	no
Yellow Delaware..... Delaware..... Incurve Delaware..... Mermaid.....	Sept. 29	Sept. 29 - Oct. 20	Oct. 13	no
Chalk Cliff..... Oregon..... Red Humdinger..... Criterion..... Personality..... Pink Deluxe..... Portrait Varieties.....	Oct. 6	Oct. 6 - Oct. 20	Oct. 20	no
Granite State..... Wilson's White..... Wilson's Yellow.....	Oct. 6	Oct. 6 - Oct. 27	Oct. 20	no
Little America..... Snow Crystal..... Ind. Varieties.....	Oct. 13	Oct. 13 - Oct. 20	Oct. 27	no
Queen's Lace..... Gold Lace.....	Oct. 13	Oct. 13 - Oct. 27	1st Oct. 27 2nd Nov. 24	no
Luna..... Monty..... Snowclad..... Blue Ribbon..... Handsome..... Queen of Pinks.....	Oct. 13	Oct. 13 - Oct. 27	Oct. 27	no





## Fast Disbuds and Fast Sprays

Varieties suitable for this program include not only a number of popular standard types such as the Indianapolis group, but also numerous large flowered pompon, single, decoratives, and anemone types, which, when disbudded to one flower, result in three to four inch blooms, this being the size range that is generally sought for. Stem lengths generally range from 24 to 30 inches.

### Why are They Becoming Popular?

First of all, they are distinctively beautiful and versatile in their use. The chrysanthemum, as is known in European floriculture, is devoted exclusively to these intermediate to large disbuds. It is thought that this method of culture partly resulted because the greatest percentage of flowers produced are purchased directly for home use. Thus, they can justifiably be called "Home-size-mums" with great future potential as we on the North American continent look forward to an expansion in our present home markets. The retail designer will use them to the same advantage as he does a carnation or a snapdragon because of their individuality in arrangement, but will favor the disbudded mum because of its rigid durability both in handling and in keeping qualities.

### Efficient Croppers and Money Makers for the Producer

The schedule allows for approximately 3 and 1/3 crops to be produced on a given bench area within a 52-week period which will produce a total of 36 to 40 individual flowers per sq. ft. As markets are both developed and educated to absorb these shorter stemmed disbuds, even greater efficiencies in reducing total crop time will be possible.

### How are They Grown?

**SPACING**—Allowing a minimum of 12 sq. inches for each flowering stem during the higher light periods of the year ranging to a maximum of 15 to 18 sq. inches per stem during the lowest and poorest light periods, has been found to be sufficiently adequate to produce this crop.

Since this crop is to be pinched, the recommendation is to plant either 4" x 6" apart and prune each plant to two stems or plant 6" x 6" and prune each plant to three stems.

Optimum grade uniformity is generally achieved by permitting only two stems to remain on each plant. This procedure is specifically recommended when the

large standard types of mums (Indianapolis, etc.) are to be grown in this fast schedule, whereas many of the intermediate type disbud varieties will readily support three stems per plant. Either method of handling will provide the same total production per given sq. ft. of bench area.



*Market Pack of Fast Disbud*

### RECOMMENDED SPACING

Summer Flowering	6" x 4"	Two stems per plant
Spring & Fall	6" x 5"	Two stems per plant
Winter Flowering	6" x 6"	Two stems per plant

**PRUNING**—Selecting the two or three most uniformly vigorous shoots on each pinched plant and removing the remaining or extra breaks should be done at the earliest possible time. If growth is freely active, this pruning operation can be done 10 to 14 days after the pinch. Careless delay in the pruning operation will shorten the height of the crop below that which is normally possible with the given schedule.

**DISBUDDING**—Much like the pruning operation. In order to achieve maximum flower development and size, select the one flowering bud, usually the terminal bud, early, whenever the side buds are firm and can be rolled or snapped off easily.

**CULTURAL POINTERS**—The principles of growing Fast Disbuds as related to soils, planting, fertilizing, temperature, watering, insect and disease control, are essentially the same as are recommended and required in the production of a regular scheduled crop of either pompons or standards.



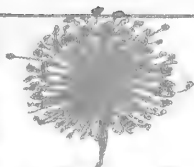
## Year-Round Fast Schedule

### FAST DISBUDS AND FAST SPRAYS

FLOWER	PLANT	PINCH	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
January 5, 1959	Sept. 15	Oct. 6	Sept. 15—Oct. 13	no	12 Week
			Sept. 15—Oct. 20	no	11 Week
			Sept. 15—Oct. 27	no	10 Week
			Sept. 15—Nov. 3	no	9 Week
January 12, 1959	Sept. 15	Oct. 6	Sept. 15—Oct. 20	no	12 Week
			Sept. 15—Oct. 27	no	11 Week
			Sept. 15—Nov. 3	no	10 Week
			Sept. 15—Nov. 10	no	9 Week
January 19, 1959	Sept. 22	Oct. 13	Sept. 22—Oct. 27	no	12 Week
			Sept. 22—Nov. 3	no	11 Week
			Sept. 22—Nov. 10	no	10 Week
			Sept. 22—Nov. 17	no	9 Week
January 26, 1959	Sept. 29	Oct. 20	Sept. 29—Nov. 3	no	12 Week
			Sept. 29—Nov. 10	no	11 Week
			Sept. 29—Nov. 17	no	10 Week
			Sept. 29—Nov. 24	no	9 Week
February 2, 1959	Oct. 6	Oct. 27	Oct. 6—Nov. 17	no	11 Week
			Oct. 6—Nov. 24	no	10 Week
			Oct. 6—Dec. 1	no	9 Week
February 9, 1959	Oct. 13	Nov. 3	Oct. 13—Nov. 24	no	11 Week
			Oct. 13—Dec. 1	no	10 Week
			Oct. 13—Dec. 8	no	9 Week
February 16, 1959	Oct. 20	Nov. 10	Oct. 20—Dec. 1	no	11 Week
			Oct. 20—Dec. 8	no	10 Week
			Oct. 20—Dec. 15	no	9 Week
February 23, 1959	Oct. 27	Nov. 17	Oct. 27—Dec. 8	no	11 Week
			Oct. 27—Dec. 15	no	10 Week
			Oct. 27—Dec. 22	no	9 Week

### VARIETIES IN RESPONSE GROUPS

	12 Week	11 Week	10 Week	9 Week
<b>WHITE</b>	White Peter John Illini Glacier Champ	White Norma Marketeer L. I. Beauty Ermine John Baumann	Iceberg	Imp. Ind. Yellow Ind. Yellow
<b>YELLOW</b>	Yellow Peter John Yellow Glory	Suzanne Miller Yel. L. I. Beauty Yellow Marketeer	Yellow Iceberg Gordon Wells	Luyona Yellow Ivanhoe Ind. Yellow
<b>BRONZE &amp; RED</b>	Bronze Peter John Forever Amber Red Empress	Calvert's Gold Olnura Valentine	Copperhead	Ivanhoe Ind. Bronze Ind. Apricot
<b>PINK</b>	Pink Peter John Orchid Valencia Empress Desire Spray	Dark Norma Dk. Pk. L. I. Beauty Thanks. Pink Vedova Venoya Ed Seidewitz	Portrait Varieties Cadenza Laughter Merriment Southdown Pink Plum	Ind. Pink



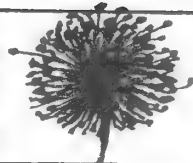
## Year-Round Fast Schedule

### FAST DISBUDS AND FAST SPRAYS

FLOWER	PLANT	PINCH	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
March 2, 1959	Nov. 3	Nov. 24	Nov. 3 —Dec. 15	no	11 Week
			Nov. 3 —Dec. 22	no	10 Week
			Nov. 3 —Dec. 29	no	9 Week
March 9, 1959	Nov. 10	Dec. 1	Nov. 10—Dec. 22	no	11 Week
			Nov. 10—Dec. 29	no	10 Week
			Nov. 10—Jan. 5	no	9 Week
March 16, 1959	Nov. 24	Dec. 15	Nov. 24—Dec. 29	no	11 Week
			Nov. 24—Jan. 5	no	10 Week
			Nov. 24—Jan. 12	no	9 Week
March 23, 1959	Dec. 1	Dec. 22	Dec. 1 —Jan. 5	no	11 Week
			Dec. 1 —Jan. 12	no	10 Week
			Dec. 1 —Jan. 19	no	9 Week
March 30, 1959	Dec. 8	Dec. 29	Dec. 8 —Jan. 12	no	11 Week
			Dec. 8 —Jan. 19	no	10 Week
			Dec. 8 —Jan. 26	no	9 Week
April 6, 1959	Dec. 15	Jan. 5	Dec. 15—Jan. 26	no	10 Week
			Dec. 15—Feb. 2	no	9 Week
			Dec. 15—Feb. 9	no	8 Week
April 13, 1959	Dec. 29	Jan. 19	Dec. 29—Feb. 2	no	10 Week
			Dec. 29—Feb. 9	no	9 Week
			Dec. 29—Feb. 16	no	8 Week
April 21, 1958	Jan. 6	Jan. 27	Jan. 6 —Feb. 10	Mar. 17	10 Week
			Jan. 6 —Feb. 17	Mar. 24	9 Week
			Jan. 6 —Feb. 24	Mar. 31	8 Week
April 28, 1958	Jan. 20	Feb. 10	Jan. 20—Feb. 17	Mar. 17	10 Week
			Jan. 20—Feb. 24	Mar. 24	9 Week
			Jan. 20—Mar. 3	Mar. 31	8 Week

### VARIETIES IN RESPONSE GROUPS

	11 Week	10 Week	9 Week	8 Week
<b>WHITE</b>	White Norma Marketeer L. I. Beauty Nevada Belray John Baumann Ermine	Iceberg Ice Cream Shasta Ensign Stardust Spray	Imp. Ind. White Silver Bow Queen's Lace Moontide	
<b>YELLOW</b>	Suzanne Miller Yel. L. I. Beauty Yellow Nevada Sulfan Yellow Marketeer Etude Spray	Yellow Shasta Chairman Gordon Wells Yellow Iceberg	Imp. Ind. Yellow Ind. Yellow Gondola Luyona Gold Lace Yellow Ivanhoe Brighton Yellow	Harvest Golden Sunburst Blazing Gold
<b>BRONZE &amp; RED</b>	Calvert's Gold Olnura Valentine	Daybreak Copperhead Paragon	Ind. Bronze Ind. Apricot Dorothy Hyde	Amber Bright
<b>PINK</b>	Dark Norma Thanks. Pink Vedova Venoya Ed Seidewitz	Portrait Varieties Cadenza Southdown Pink Plum Laughter Merriment	Ind. Pink Blue Ribbon Bunbu	



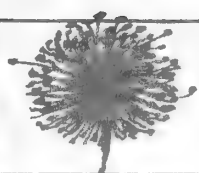
## Year-Round Fast Schedule

### FAST DISBUDS AND FAST SPRAYS

FLOWER	PLANT	PINCH	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
May 5, 1958	Jan. 27	Feb. 17	Jan. 27—Feb. 24	Mar. 17	10 Week
			Jan. 27—Mar. 3	Mar. 24	9 Week
			Jan. 27—Mar. 10	Mar. 31	8 Week
May 12, 1958	Feb. 3	Feb. 24	Feb. 3 —Mar. 3	Mar. 17	10 Week
			Feb. 3 —Mar. 10	Mar. 24	9 Week
			Feb. 3 —Mar. 17	Mar. 31	8 Week
May 19, 1958	Feb. 10	Mar. 3	Feb. 10—Mar. 10	Mar. 17	10 Week
			Feb. 10—Mar. 17	Mar. 24	9 Week
			Feb. 10—Mar. 24	Mar. 31	8 Week
May 26, 1958	Feb. 17	Mar. 10	Feb. 17—Mar. 17	Mar. 17	10 Week
			Feb. 17—Mar. 24	Mar. 24	9 Week
			Feb. 17—Mar. 31	Mar. 31	8 Week
June 2, 1958	Mar. 3	Mar. 17	Mar. 3 —Mar. 24	Mar. 24	10 Week
			Mar. 3 —Mar. 31	Mar. 31	9 Week
			Mar. 3 —Apr. 7	Apr. 7	8 Week
June 9, 1958	Mar. 10	Mar. 24	Mar. 10—Mar. 31	Mar. 31	10 Week
			Mar. 10—Apr. 7	Apr. 7	9 Week
			Mar. 10—Apr. 14	Apr. 14	8 Week
June 16, 1958	Mar. 17	Mar. 31	Mar. 17—Apr. 7	Apr. 7	10 Week
			Mar. 17—Apr. 14	Apr. 14	9 Week
			Mar. 17—Apr. 21	Apr. 21	8 Week
June 23, 1958	Mar. 31	Apr. 14	Mar. 31—Apr. 14	Apr. 14	10 Week
			Mar. 31—Apr. 21	Apr. 21	9 Week
			Mar. 31—Apr. 28	Apr. 28	8 Week

### VARIETIES IN RESPONSE GROUPS

	10 Week	9 Week	8 Week
<b>WHITE</b>	Iceberg Ice Cream Shasta Sentinel	Marblehead Silver Bow Ind. White Alaska Queen's Lace	Wh. Pink Chief
<b>YELLOW</b>	Luxury Yellow Shasta Chairman Yellow Iceberg Gordon Wells	Golden Herald Gondola Luyona Gold Lace Good News Yellow Ivanhoe Ind. Yellow Imp. Ind. Yellow	Harvest Golden Celestra Sunburst Blazing Gold
<b>BRONZE &amp; RED</b>	Nectarine Copperhead	Ind. Bronze Dk. Ind. Bronze Ivanhoe Detroit News Fred Yule	Mayford's Triumph Amber Bright
<b>PINK</b>	Portrait Varieties Cadenza Laughter Merriment Humdinger	Ind. Pink Blue Ribbon Thomas Johnson Mary Garden	



## Year-Round Fast Schedule

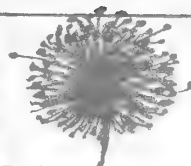
### FAST DISBUDS AND FAST SPRAYS

FLOWER	PLANT	PINCH	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
June 30, 1958	Apr. 7	Apr. 21	Apr. 7 —Apr. 21	Apr. 21	10 Week
			Apr. 7 —Apr. 28	Apr. 28	9 Week
			Apr. 7 —May 5	May 5	8 Week
July 7, 1958	Apr. 14	Apr. 28	Apr. 14—Apr. 28	Apr. 28	10 Week
			Apr. 14—May 5	May 5	9 Week
			Apr. 14—May 12	May 12	8 Week
July 14, 1958	Apr. 21	May 5	Apr. 21—May 5	May 5	10 Week
			Apr. 21—May 12	May 12	9 Week
			Apr. 21—May 19	May 19	8 Week
July 21, 1958	Apr. 28	May 12	Apr. 28—May 5	May 12	10 Week
			Apr. 28—May 12	May 19	9 Week
			Apr. 28—May 19	May 26	8 Week
July 28, 1958	May 5	May 12	no	May 19	10 Week
				May 26	9 Week
				June 2	8 Week
August 4, 1958	May 12	May 19	no	May 26	10 Week
				June 2	9 Week
				June 9	8 Week
August 11, 1958	May 19	May 26	no	June 2	10 Week
				June 9	9 Week
				June 16	8 Week
August 18, 1958	May 26	June 2	no	June 9	10 Week
				June 16	9 Week
				June 23	8 Week
August 25, 1958	June 2	June 9	no	June 16	10 Week
				June 23	9 Week
				June 30	8 Week

### VARIETIES IN RESPONSE GROUPS

	10 Week	9 Week	8 Week
<b>White</b>	Iceberg Ice Cream Ensign Shasta Sentinel Stardust Spray	Marblehead Ind. White Silver Bow Queen's Lace Moontide Themesong Camille Baumann	Wh. Pink Chief
<b>Yellow</b>	Luxury Yellow Shasta Chairman	Imp. Ind. Yellow Ind. Yellow Yel. Marblehead Luyona Golden Herald Good News Yellow Ivanhoe	Harvest Golden Celestra Sunburst Amber Bright Topflight Spray
<b>BRONZE</b>	Daybreak	Dorothy Hyde	Resolute
<b>Pink</b>	Plum Pennant Laughter Humdinger	Bunbu	





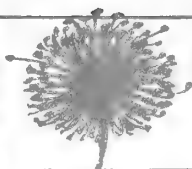
## Year-Round Fast Schedule

### FAST DISBUDS AND FAST SPRAYS

FLOWER	PLANT	PINCH	START SHADE	RESPONSE GROUP
September 1, 1958	June 9	June 16	June 23 July 30 July 7	10 Week 9 Week 8 Week
September 8, 1958	June 16	June 23	June 30 July 7 July 14	10 Week 9 Week 8 Week
September 15, 1958	June 23	June 30	July 7 July 14 July 21	10 Week 9 Week 8 Week
September 22, 1958	June 30	July 7	July 7 July 14 July 21	11 Week 10 Week 9 Week
September 29, 1958	July 7	July 14	July 14 July 21 July 28	11 Week 10 Week 9 Week
October 6, 1958	July 14	July 21	July 21 July 28 Aug. 4	11 Week 10 Week 9 Week
October 13, 1958	July 21	July 28	July 28 Aug. 4 Aug. 11	11 Week 10 Week 9 Week
October 20, 1958	July 21	Aug. 5	Aug. 4 Aug. 11 Aug. 18	11 Week 10 Week 9 Week
October 27, 1958	July 28	Aug. 11	Aug. 11 Aug. 18 no	11 Week 10 Week 9 Week

### VARIETIES IN RESPONSE GROUPS

	11 Week	10 Week	9 Week	8 Week
<b>WHITE</b>	Marketeer John Baumann Ermine	Iceberg Ice Cream Shasta Sentinel Ensign Stardust Spray	Moontide Themesong Camille Baumann Marblehead Silver Bow Queen's Lace Ind. White	White Pink Chief
<b>YELLOW</b>	Illini Goldilocks Sultan Yellow Marketeer Etude Spray	Luxury Yellow Shasta Chairman Yellow Iceberg	Imp. Ind. Yellow Yel. Marblehead Golden Herald Luyona Gold Lace Yellow Ivanhoe	Harvest Golden Celestra Sunburst Blazing Gold Topflight Spray
<b>BRONZE &amp; RED</b>	Calvert's Gold Illini War Paint Olnura	Daybreak Nectarine The Titan Bronze Pandora Copperhead Paragon	Dorothy Hyde Duchess Stuart Ogg Ind. Bronze Dk. Ind. Bronze Ivanhoe Fred Yule	Resolute Amber Bright
<b>PINK</b>	Almega Marion Breedon Thanks. Pink Rose Delight	Plum Portrait Varieties Pennant Cadenza Salmon Pandora Laughter Merriment Humdinger	Bunbu Mary Garden Ind. Pink	Pink Chief



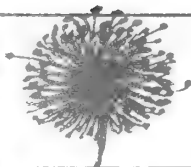
## Year-Round Fast Schedule

### FAST DISBUDS AND FAST SPRAYS

FLOWER	PLANT	PINCH	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
November 3, 1958	July 28	Aug. 11	no no	Aug. 18 no	11 Week 10 Week
November 10, 1958	Aug. 4	Aug. 18	no no Aug. 11—Sept. 1	Aug. 18 Aug. 25 no	12 Week 11 Week 10 Week
November 17, 1958	Aug. 11	Aug. 25	no no Aug. 11—Sept. 8	Aug. 25 no no	12 Week 11 Week 10 Week
November 24, 1958	Aug. 18	Sept. 1	no Aug. 18—Sept. 8 Aug. 18—Sept. 15	no no no	12 Week 11 Week 10 Week
December 1, 1958	Aug. 18	Sept. 8	Aug. 18—Sept. 8 Aug. 18—Sept. 15 Aug. 18—Sept. 22	no no no	12 Week 11 Week 10 Week
December 8, 1958	Aug. 25	Sept. 15	Aug. 25—Sept. 15 Aug. 25—Sept. 22 Aug. 25—Sept. 29	no no no	12 Week 11 Week 10 Week
December 15, 1958	Aug. 25	Sept. 15	Aug. 25—Sept. 22 Aug. 25—Sept. 29 Aug. 25—Oct. 6	no no no	12 Week 11 Week 10 Week
December 22, 1958	Sept. 1	Sept. 22	Sept. 1 —Sept. 29 Sept. 1 —Oct. 6 Sept. 1 —Oct. 13	no no no	12 Week 11 Week 10 Week
December 29, 1958	Sept. 8	Sept. 29	Sept. 8 —Oct. 6 Sept. 8 —Oct. 13 Sept. 8 —Oct. 20	no no no	12 Week 11 Week 10 Week

### VARIETIES IN RESPONSE GROUPS

	12 Week	11 Week	10 Week
<b>WHITE</b>	<b>White Peter John Champ White Valencia December Glory Illini Glacier</b>	<b>White Norma Markfeer L. I. Beauty Nevada Belray John Baumann Ermine</b>	<b>Iceberg Shasta Imp. Ind. White</b>
<b>YELLOW</b>	<b>Yellow Peter John Yellow Glory</b>	<b>Illini Goldilocks Susanne Miller Yel. L. I. Beauty Yellow Nevada Yellow Markfeer Etude Spray</b>	<b>Yellow Iceberg Yellow Shasta Chairman Gordon Wells Imp. Ind. Yellow Ind. Yellow</b>
<b>BRONZE &amp; RED</b>	<b>Red Empress Forever Amber Apricot Valencia Bronze Peter John</b>	<b>Valentine Calvert's Gold Illini War Paint Olnura</b>	<b>Ind. Bronze Dark Ind. Bronze Copperhead Paragon</b>
<b>PINK</b>	<b>Pink Peter John Orchid Valencia Empress Desire Spray</b>	<b>Vedova Venoya Dark Norma Almega Thanks. Pink</b>	<b>Ind. Pink Plum Southdown Pink Laughter Merriment</b>



## Better Chrysanthemums

### CUTTINGS

The cuttings you receive are produced for direct planting. They are of excellent quality, properly rooted. These cuttings all have a pedigree record as to their productiveness and freedom from diseases. Each variety is increased from single plant selections. This contributes to more uniform growth and flowering.

#### Handling Cuttings

The cuttings you receive have been propagated in a material containing some organic matter which naturally has some plant food. Consequently these cuttings can be planted directly into the final location. Ordinarily they will not require shading, but if they have been several days in transit and have softened up some, or if they are planted during warm, bright weather, shading with aster cloth or paper is advisable. Under no circumstances leave the covering on the plants during dull weather or at night. It is well to syringe the plants frequently until they stand up and are showing signs of growth. Some evidence shows that watering with a starter solution (weak nutrient solution) within 48 hours after planting will speed up the growth.

#### Deliveries

With the advent of the time pinch and the precision method of culture, it is necessary to have your cuttings arrive at a definite date. To insure proper delivery, you must plan your cutting requirements months in advance of the date wanted. We would appreciate it if you could let us know your requirements so that our propagator can plan his growing of stock plants and cuttings even more systematically than he does.

To facilitate deliveries, cuttings will be shipped on Monday and Tuesday of each week. However, we will gladly make shipment on Friday or Saturday if specifically requested and provided the order is received one month prior to the required shipping date.

#### Delays

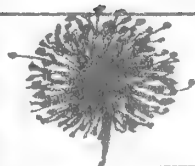
With the reduced delivery schedule of the Railway Express Agency, there may be delays in delivering your shipments. Chrysanthemum cuttings can be injured from cold as well as being too long in transit. If the cuttings are slightly wilted, they should be immersed in water for a short period and then planted. They will react perfectly to such treatment. If the cuttings have been slightly frozen, placing them in a cool room and thawing them out gradually, or placing them in a pail of cool water to take the frost out will bring them through so that they will do just as well as cuttings that have had nothing happen to them. Of course, if stock is badly frozen, or if long delays have occurred so that the cuttings are heated, yellow or rotted, **you should file a claim at once with the express company.**

#### Air Freight

We have been very well satisfied with the use of Air Freight to deliver rooted cuttings this past season. Customers who are close to an airport are naturally served better than those who have to have their shipment reconsigned via Railway Express. **If you plan to use air freight, you should have your telephone number appear on all shipping labels.**



*Well Rooted Cuttings are Grown in Air Conditioned Greenhouses*



## Cultural Pointers

### SOILS

Maintain an open, well-aerated soil that drains well in addition to having some moisture retention capacity. Periodic additions of organic matter to greenhouse soils has become a necessary practice for maintaining these desired properties that are associated with good soil management. The reason for the great care in soil preparation is to permit penetration of water and a uniform supply of fertilizer. If water remains on the surface of your soil for more than a few moments after watering, your soil is not of good structure.

When light is a limiting factor, the chrysanthemum plant is much more sensitive to overwatering and to soluble salt content than at any other period of the year. We continue to see marked improvement and benefits when sterilization is arranged to just precede the planting for the winter crops.

#### Steam Sterilization

Steam sterilization has become an integrated part of good soil management. In the past, steaming greenhouse soils once each year was thought to be adequate, but year-round producers of chrysanthemums have found that steam sterilization before each crop pays off with better quality and greater productivity. Steaming not only improves soil aggregation, but does produce magic-like effects upon growth where a continuous one-crop system is practiced.

#### Chemical Sterilization

If steam is not available chemical sterilization should be used. A chemical which has proven its worth is **Larvacide**. This material must be used when the greenhouses are empty to avoid injury to adjoining crops. The soil temperature should be at least 60 degrees or higher. When used properly you can expect favorable control of insect, diseases and weed seeds. **Dowfume MC 2** is a combination of Methyl Bromide with a small percentage of Chloropicrin. This too should be applied similar to Larvacide and will give fair control of diseases such as those associated with this crop. **Vapam** is easy to apply and will give good control of weed seeds, nematodes and many fungi.

#### Soil Management

Soils vary a great deal over the country, and yet many good crops of chrysanthemums are grown on all types of soil. Soil itself is not the most important factor, but soil management is of extreme importance. In considering the management of soil, the following steps are suggested:

1. Apply a quarter of the volume of manure, peat or other organic substitute once a year, usually just before steam sterilization. Rototill organic matter into the soil. When growing on ground beds, watch the tilling so that no impervious layer is formed which will later cause poor drainage.

2. Steam sterilize the soil so that the coolest point is heated to 180 degrees F. for 30 minutes. Sterilize before each crop.

3. Test soil for acidity, nitrates, phosphates, potassium and soluble salts and make corrections before planting.

4. Add several bushels of granular peat per 100 sq. ft. of area before planting and working into the top inch of soil.

5. Plant immediately after the soil cools. Waiting a week or two will increase the soluble salts into a dangerous concentration.

6. Water heavily after planting so that the soil is firmed around the roots of the cutting. Water the plants with a half strength liquid fertilizer immediately after the first watering. Continue to water heavily until the plants have become well established.

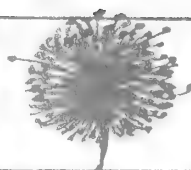
7. Maintain the following **Spurway** nutrient levels:

Nitrate Nitrogen	10-25 p.p.m.
Phosphorus	5-10 p.p.m.
Potassium	20-40 p.p.m.
Calcium	200-250 p.p.m.
pH	6.0-7.0
Solubridge reading (1-5 dilution)	40 or lower

8. Apply a complete fertilizer at time of bud initiation. Heavy watering and frequent light fertilizing will make chrysanthemums grow.



*Uniform Growth Is The Result of Good  
Soil Management*



## Cultural Pointers

### FERTILIZERS

Soil structure is the key to soil fertility. The response of chrysanthemums to fertilization depends upon a favorable soil structure. It is known that plants require nutrients, water and air for growth. Good soil structure will provide proper air and water relationships. Therefore, it behooves us to give proper attention to the soil before starting the crop. Good open soil is a necessity.

#### Feeding

Chrysanthemums do much better right from the start if the soil is not too rich. Very often this crop will start off faster in new soil as compared to old soil that has been sterilized just because of the lower nutrient level in new soil. When using new soil, apply 5 pounds of superphosphate per 100 sq. ft. of area, plus a liberal application of manure before planting. Phosphorus moves slowly within the soil mixture. It should always be added before the crop is benched so that it may be mixed thoroughly into the soil. Liquid feeding with water-soluble fertilizers is fast becoming the popular method of applying fertilizer. Water soluble fertilizers are available in many different analyses and therefore you can apply the fertilizer your soil requires. Many growers are feeding soluble fertilizers through their automatic watering systems. Remember to apply weaker solutions of fertilizer more frequently rather than heavy doses less frequently. When using complete fertilizers in dry form we usually figure on using two applications at 2 pounds per 100 sq. ft. of area starting shortly after the plants have started to grow and ending when the buds are visible. **Remember that the plant is the best guide to fertilizer requirements and that more mums are ruined by overfeeding than by nutrient deficiencies.**

#### Levels of Nutrition

When using sterilized soil, the best recommendations to follow would be to analyze your soil from time to time. We have found that when the following Spurway nutrient levels are kept, good crops are the result. **Nitrate nitrogen should be 10-25 p.p.m.; phosphorus 5-10 p.p.m.; potassium 20-40 p.p.m. and calcium near 200 p.p.m.** To increase the nitrate level, feed one pound of ammonium sulfate per 100 sq. ft. of area, and to bring up the potassium, apply muriate of potash not to exceed 1 pound per 100 sq. ft. If phosphorus is needed, apply mono-calcium phosphate at the rate of 1 pound per 100 sq. ft.

A liberal application of calcium sulfate (gypsum), 5 pounds per 100 sq. ft., after steam sterilization will prevent injury to young roots. High phosphorus also reduces toxicity after sterilization.

In the cooler weather and shorter days of September, omit the nitrogen if the plants are growing freely. The mum assimilates more phosphorus and potassium during the time of bud initiation. Therefore, it is desirable to apply a complete fertilizer shortly after the buds are visible.

#### Soluble Salts

Soluble salts are chemical compounds consisting of an acid part (ion) and a basic part (ion). For example, common table salt, sodium chloride, consists of one ion of chloride and one of sodium. Chloride is an acid-forming ion, and sodium a basic or alkali-forming ion. The two combine in chemically equivalent quantities to form a neutral salt. Other common acidic ions are sulfate, nitrate, bicarbonate and phosphate. Other common basic ions are calcium, magnesium, potassium and ammonium. Any basic ion may combine with any acidic ion giving rise to a great variety of salts.

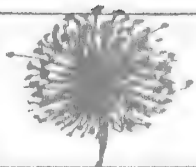
All plant nutrients which are absorbed by plants from the soil or from culture solutions are absorbed in the form of salts or their constituent ions. All organic materials become "mineralized" through decay processes, and the nutrients in them are converted into salts before being absorbed by plants. Some salts contain plant nutrients and are beneficial in the small quantities required for plant growth. Others contain no nutrients. All salts are harmful beyond the small quantity required for plant growth. A little is bad, more is worse, up to the point where plants will be killed. Salts are found in most water and are applied as fertilizer. Improper watering may permit a concentration into the harmful range. Instruments called Wheatstone's bridges are available which measure total soluble salts in terms of electrical conductivity or conductance. Many laboratories of the Agricultural Extension Service are equipped with Solubridge instruments for use in assisting with soluble salt problems.

It has been found that **when planting rooted cuttings, the Solubridge readings should not be higher than 40**, while established plants do not withstand readings of 100 without showing some harmful effects. To remedy excess soluble salts, apply 2 to 3 gallons of water per sq. ft. and leach out this high salt content.



*Gates Watering System*





## Cultural Pointers

### NEWEST METHOD OF LIQUID FERTILIZING

The benefits of liquid fertilizing have been clearly pointed out in the last several years. Pot plant growers in particular are finding it possible to feed much more often than they could afford to under the old system of applying dry fertilizer. Most growers heartily endorse liquid feeding, but usually find that it is a cumbersome procedure. Up until now much of the equipment available to the trade for injecting or proportioning fertilizer into a water line has either been undependable, too complicated, or too costly. The FERT-O-JECT is the first reasonably priced unit designed to inject fertilizers into a water line without cutting the water pressure. This unit, designed and developed expressly for work with fertilizers, is precision built, yet any grower can tear it down and reassemble it.

#### How Fert-O-Ject Works

Fertilizer is injected into the water line by **positive displacement** and does not use a diaphragm or complicated linkage. The FERT-O-JECT operates with an **Automatic Flow Rate Anticipator**. Regardless of the number of people watering or the volume of water being used, the correct amount of feed is injected into the system. The accuracy of the FERT-O-JECT is truly amazing. The unit automatically turns off when the watering is finished.

Growers throughout the country are liquid feeding very weakly every time they water. This system was advocated by W. D. Holley of Colorado A & M several years ago and many growers in the Colorado area have been feeding in this manner. This popular system has been spreading rapidly, with other universities and authorities recommending its use.

#### Method is Practical

Perhaps the statement that most clearly emphasizes the practicalness of feeding weakly with every watering is: "The rate a plant uses water is the best available measure of its fertilizer requirements". A plant is constantly using fertilizer so it is therefore feasible to assume it is right to feed it constantly. In the winter months, plants are watered less and consequently receive less feed. Cutting benches, shaded areas, and cooler crops receive less water and therefore less feed.

Major results are observed in nutrient levels after such a method of fertilizing — mainly soluble salts drop and other nutrient levels remain very constant.

The labor involved in applying and watering-in dry feed, while not a major item, can be eliminated and at the same time a more dependable and a more uniform application of fertilizer will result.

The switch from a weak fertilizer to clear water can be made by simply turning one water valve.

The fact that fertilizer stands in the water lines scares many growers, but the solution is so weak that water systems twenty years old are not affected when a new unit is installed.

#### Application Rates

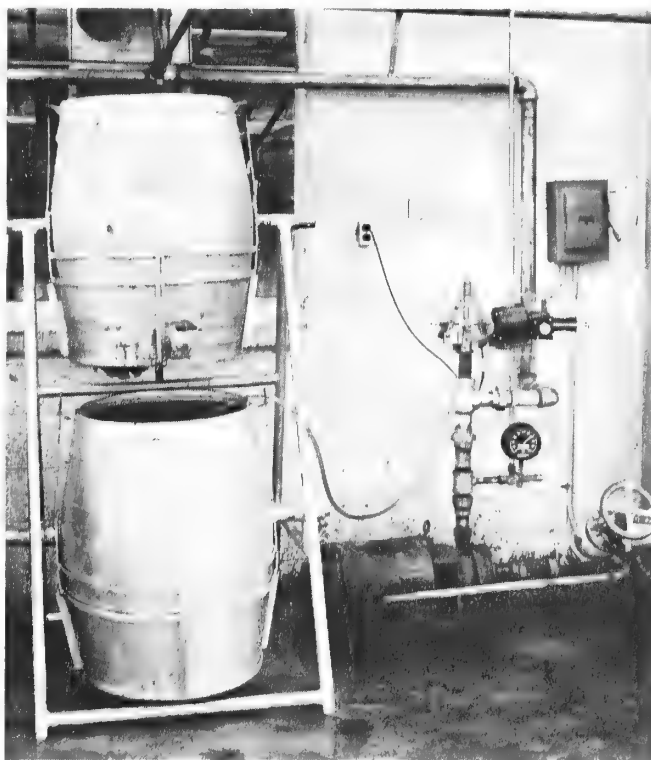
The amount of fertilizer used with the FERT-O-JECT will of course vary with the grower, locality, and crop, but many growers are putting 50 lbs. of ammonium nitrate and 30 lbs. of muriate of potash per barrel, which in

turn makes 10,000 gallons of weak fertilizer. All FERT-O-JECT, MODEL E's, are set at the factory at a proportion of 1:200. Any soluble fertilizer can be used with the system.

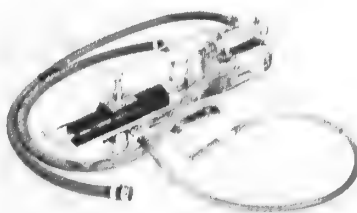
With the advent of satisfactory surface watering systems, liquid feeding regularly is even more important. These newer watering systems do such a satisfactory job of watering that more fertilizer is leached from the soil.

Growers have successfully grown chrysanthemums, roses, and carnations at the same range with one FERT-O-JECT and one fertilizer formula.

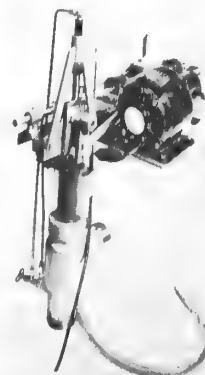
The simplicity and accuracy of the FERT-O-JECT, make it a popular piece of equipment with growers once they see it operate.



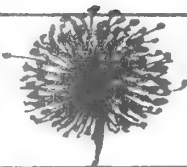
*Fertilizer injector set up which injects liquid fertilizer concentrate into water line.*



*(Above) Portable Fert-O-Ject, Model PR, for pot plant growers. Proportion 1:35. \$235 F.O.B. Whittier, Calif.*



*(Right) Fert-O-Ject, Model E, for permanent installation seen in the large photograph above. \$435 F.O.B. Whittier, Calif.*



## Cultural Pointers

### PLANTING

Chrysanthemums grow equally as well on a raised bench or on a ground bed. The care is slightly different in that raised benches dry out more frequently during the summer and early fall months. It must be remembered that a good circulation of air is desirable, yet a direct draft is not advisable.

#### Planting Date

The proper date of planting will naturally vary according to when the crop is to bloom. For natural blooming we prefer to plant 3 or 4 weeks before the last pinching date. When flowering from August to October, we suggest you plant 3 weeks before the pinching date. In the year-round flowering schedule where no pinch is followed, we have given the advised planting dates in that schedule.

#### Planting Rooted Cuttings

Many florists are planting rooted cuttings directly into permanent locations. This not only reduces several handlings and production costs, but also produces a better-quality bloom. We fully realize that it is often an impossibility for all to treat their chrysanthemums this way. However, we have found that young, soft plants are superior to hard, woody plants. **Never plant cuttings any deeper than what they were in the propagating media; too deep will cause stem rot.** Water heavily after planting. If new white roots are not formed within the first 12 hours, something is not quite right.

#### Single-Stem or No-Pinch Method

Cuttings are planted and allowed to grow without pinching. It is an essential practice if 3 crops a year are to be realized in the year-round flowering schedule. Where crops are planted from September 15 to February 1, no-pinch method produces a superior crop, whereas a pinched crop is weaker and of poorer quality.

#### Light Intensity

When planting rooted cuttings into their permanent position, it is necessary to shade the glass or to put aster cloth directly over the young plants until they are established. When shading the glass, be sure that the material is applied lightly.

When growing quality chrysanthemums, the higher the light intensity or the least amount of shade over the plants during the growing season, the better the quality of bloom. Shade on the glass is only there for the convenience of the grower and not for the require-

ments of the plant. For cloth houses, the amber Saran is superior to the green because of more light under the amber covering. Naturally the plants require more water when growing under high light intensities.

It is recommended to shade the plants when flowers are about one-half open to prevent them from sunburning. When growing standards, a good practice would be to stretch muslin directly over the open blooms. This not only prevents sunburning but also keeps the blooms free from dirt.

#### Distance of Planting

For good quality pompons, we prefer to plant 7x7 inches or 8x8 inches pinched once, and thin the shoots to 3 per plant. The outside rows will support one more stem than the center rows in the bed. Nothing is gained by planting at a closer distance. Light intensity should be high at the base of the plant for quality blooms, and if planted too closely, we have lost the factor which promotes quality. Large-flowered varieties are generally planted 8x8 inches or 7x7 inches; this also applies to disbud anemone and single varieties.

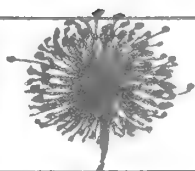
For single stem, no-pinch method pompons should be spaced 4x6 and standards 5x6. When further spacing is used the sprays of the pompons become too large. A slightly closer spacing is recommended when growing conditions are more favorable. Mini-mums (fast disbuds) should be spaced 4x6 in the summer flowering period and 6x6 in the winter.

#### PLANTING DISTANCE FOR NO-PINCH METHOD

Pompons	4 x 6 inches
Standards	5 x 6 inches
Fast-mums	4 x 6 inches (Summer)
Fast-mums	6 x 6 inches (Winter)



*Applying Additional Light to an Entire House*



## Cultural Pointers

### PINCHING

For a good number of years, the reason for pinching was to regulate the number of stems on the plant. In recent years, we have learned that in the case of pompons or singles the pinching determines the type of spray formation. With standards, pinching will determine the type of bud formation, whether it be a crown or terminal bud. Always pinch in the soft wood.

#### Pinching

Under the heading "Chrysanthemum Flowering Schedule" you will find the exact pinching dates for all planting dates. The table below will indicate the time to pinch after planting, according to various planting dates:

When planting **Nov. 15 to Feb. 14** allow **4 weeks** plant to pinch.

When planting **Feb. 15 to Nov. 14** allow **3 weeks** plant to pinch.

Time pinching standards will eliminate the formation of the crown bud and produce terminal buds which will in turn produce a much straighter flowering stem.

#### Pruning

Another important factor is to remove all shoots but 3 or 4 per plant. In a few instances only 2 shoots are allowed to mature. Allow more shoots to develop on the outside rows than on the center rows of a bed. When fewer breaks are selected, the planting distance should be closer.

Standards are usually pinched once to induce breaks so that they may be grown 2 per plant. The strongest breaks are selected and all others removed. It is well to pinch on the date suggested in the general list. Careful observation has shown us that neckiness with some varieties is eliminated by pinching on the respective dates. Singles and anemones are usually grown 3 to 4 stems per plant.

#### Condition of Plant

When pinching, remove only the soft growth, never cut into the woody stems as this will not produce the type of breaks you desire. It is our experience that it is best not to pinch until the plant has become well established in its permanent location. In all cases, it is better to have at least 8 to 10 inches of growth on the plants before pinching. (Photos below.)

If by chance you are delayed in planting, and your plants will be too tall, it is advisable to pinch early enough before benching so that the breaks will be several inches long at time of planting. Never pinch hard plants at the same time they are planted in the bench as a heavy loss may result. Better wait until plants are established and then pinch.

The pinching dates given after each week response will help you grow that variety to excellency. Remember that pinching is just one cultural point and will only function when all other cultural points are carried out properly.



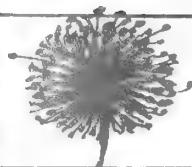
**Well-Established Young Plant**



**Top Several Inches Removed**



**Strong Breaks Resulting  
from Single Pinch**



## Cultural Pointers

### DISBUDDING

Large-flowered varieties produce side shoots in the axils of the leaves which should be removed very close to the base at regular weekly intervals. Disbuds are handled the same as standards.

#### Taking Bud

Taking bud means allowing the flowering bud to remain and removing all others and applies to standards and disbuds. The chrysanthemum usually produces two distinct types of flowering buds — Crown and Terminal. The first bud produced is called the crown bud and is distinguished by being surrounded by other lateral leaf buds. The second is the terminal bud and is surrounded by several flower buds. If the plant is planted especially early, a second crown bud may appear. In appearance, this second crown bud is exactly the same as the first.

The procedure of "Taking Bud" depends very largely on the variety. Usually the safest rule to follow when growing for natural bloom is not to select a bud on early or midseason varieties before August 25. If bud is selected too early, a large percentage of the flowers will be crippled. Good common sense must be used to determine the proper selection of bud.

The formation of the crown bud usually does not take place when pinching plants on the date of their response group. When following "Time Pinch," select the first bud that appears. This will result in straight stems without the dogleg growth that appears when second bud is taken.

The final selection of bud should not be made when the cluster buds are too small as this will very likely cause injury to the stem near the bloom. Likewise, it is not advisable to delay selecting the bud too long. Some growers like to leave an alternate bud until they are certain that nothing will happen to the one finally selected.

#### Disbudded Spray

The procedure in growing disbudded sprays is to wait until the crown bud forms, then remove all but three vegetative shoots. Later, when terminal buds appear, disbud each shoot similarly to the normal disbudding of standards. When the blooms mature, there are three flowers on each spray. In singles and anemones, the size of the blooms will be a trifle smaller than when they are grown as one flower per stem. Raise 3 stems per plant, similar to straight disbud. Varieties such as Goldsmith, Valencia, etc., can be grown as disbudded sprays.

#### Disspray

Thinning down the number of buds on a spray of pompons is called "Disspray." During certain seasons

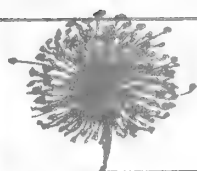
of growth many varieties of pompons produce too many buds per spray. If allowed to develop many of the flowers will stick and have poor quality. Thinning these buds to 4 or 5 buds will produce the highest quality sprays. Each variety will have to be studied to determine which buds to leave. Some varieties are improved when just the center bud is removed while with others the center bud plus 3 or 4 others near the top are left and the other suckers down the stem are removed.

#### Premature Budding

Bud initiation can occur anytime during the spring months, whenever your temperatures in the greenhouses are consistently 60 degrees Fahrenheit or above, and the days are short enough to initiate bud setting. These conditions can occur anytime up until May 1st depending upon the variety and the locality in which they are being grown. Some varieties, such as the garden varieties and early shading varieties, require very little short-day treatment, coupled with high temperatures to initiate buds. This same tendency to set bud readily is what makes these varieties desirable for early shading and garden work. In order to prevent this premature setting of buds, these same varieties should be placed where they can be given additional light during the early spring months. Use 60-watt bulbs spaced 4 feet apart and 24 inches above the plants. Three hours of light during the middle of the dark period will prevent budding completely if the minimum intensity is 8-foot candles. The same treatment on either end of the night might not be effective if you have a particularly cloudy period which gives you extremely short day.



*Left: Terminal bud surrounded by flower buds.  
Right: Terminal bud selected.*



## Cultural Pointers

### WATERING

The knowledge of proper watering is essential to success. Chrysanthemums produce extremely heavy foliage, and a great deal of water is required at the roots. And under ordinary conditions of bench culture, overwatering would be difficult. When grown in beds, more care should be exercised in watering. Some soils look wet on the surface but are very dry several inches below.

When planting rooted cuttings directly into their permanent locations, it is essential to water thoroughly to set the soil around the plant roots. We suggest double watering again when the soil gets on the dry side. By this time, the plants are established and regular watering should be followed. Keep humidity in the house by wetting down bench and walks.

When light is a limiting factor, the chrysanthemum plant is much more sensitive to overwatering and to soluble salt content than at any other period of the year.

Steam sterilization causes the soil to become more granular, and capillary movement of water in it is much slower than in soils not steamed. Cuttings planted in it cannot obtain water readily, and for this reason should be kept more moist than in soils not sterilized.

Keep soil moisture high after the buds of the chrysanthemum show color. Moisture is very necessary in the development of the petals of the bloom. If the soil is kept a little too dry small poorly developed blooms will result.

#### Surface Watering

During the past several years, many labor-saving devices have been developed. Surface watering is one that will save many hours of hand watering your chrysanthemum crop. The Greco Automatic watering system, Gates System, Gro-Hose, the Skinner Superior

nozzle and the White Showers nozzle are outstanding methods in use today.

**When installing surface watering, check your water supply and the capacity needed to irrigate your area. It is advisable to have an engineer figure out your requirements.**

#### Leaching

Many greenhouse soils are excessively rich, and chrysanthemums will not thrive in such a medium. If this is the case, the remedy is leaching with water. After the soil is sterilized, it should be leached. Use a Skinner line and allow it to run for hours if necessary.



**Pipe in Middle of Each Bed Has Full Circle Nozzles for Surface Watering**

## TEMPERATURE AND VENTILATION

For inter-connected units or crops at different stages of development the most efficient and effective temperature recommendations we can make are **cool 60° crops**. The house temperature is run at a straight 60° level night and day, cloudy or sunny. This is the lowest, safest minimum. It is the night temperature that counts. Eliminating fluctuation promotes steady, gradual growth. Keeping day temperatures down encourages more ventilation with corresponding reduction in relative humidity. This promotes stronger, heavier stems. On very bright days temperatures will frequently go higher but this should be due to radiant heat from the sun rather than convective greenhouse heat.

Temperatures much above 90 degrees will act as a prohibitor. When the night temperatures are in the 90's, bud development is hindered. This is especially true when black-clothing in the hottest part of the year. To reduce high temperatures under the black cloth, it is suggested that the sides of the cloth be lifted after sundown and dropped again before the sun rises in

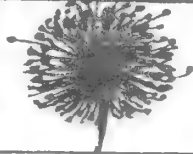
the morning. During high temperature periods, it is much better to apply the cloth later in the afternoon and allow it to remain later in the morning.

Temperature has been responsible for peculiar types of flowers. The Indianapolis varieties develop quilled and flat blooms when allowed to develop under low temperatures. Many varieties will develop black centers in the flower when grown under high temperatures and low light intensity.

Pink and bronze colors just do not develop when the temperatures are high in the early stages of flower development. High light intensity and low temperatures are conducive to good color development. Many of the newer varieties will develop better color during hot summer months than the older varieties. The pinking of white varieties and the bronzing of yellow varieties results as the flowers develop at low temperatures.

Closed, humid houses make for soft spindly growth. **Good ventilation** is a must to reduce relative humidity and pays significant dividends when correctly handled.





## Cultural Pointers

### LATEST DEVELOPMENTS ON GREENHOUSE COOLING

The rapid manner in which millions of square feet of greenhouse have successfully been cooled in all parts of the country, clearly shows the outstanding significance of this new system in controlling greenhouse conditions.

With one year elapsed since the last **GLOECKNER CHRYSANTHEMUM MANUAL** first touched on greenhouse cooling, much has been learned about practical application in all areas of the United States. Up until this last summer most greenhouse cooling was done in areas of low humidity. Here compiled, as collected by your **GLOECKNER REPRESENTATIVES**, are various practical suggestions as told to them by growers from all parts of the country:

1. Baffles to properly direct air movement, prove of increasing importance. Polyethylene in greenhouse gables, from the gutter line to the ridge, is recommended every 30 feet when pulling lengthwise of the greenhouse. Likewise, when pulling across greenhouse, use baffles several feet up side wall running full length of greenhouse or suspended under the gutter several feet.

2. Distribution of water and wetness of pad cannot be overemphasized. Dry areas in the pad greatly reduce the pad effectiveness. Oftentimes pads are wet only on one side and this should be corrected. Pads are sometimes too thick. One should be able to barely see through a pad when standing with the face against pad.

3. Keep pads free from dust, dirt, cottonwood seed, and accumulated salt from the water. Weekly washing down with a strong rose syringe will keep pads operating efficiently.

4. Growers in areas of high humidity have learned to withhold water from the pad at night while still circulating air. This eliminates any condensation of moisture that normally occurs.

5. Feeding programs have been greatly increased under air conditioning. Denver growers in some cases reporting they have doubled rate of feed.

6. A light shade on greenhouse roof is still recommended by most growers who were used to shading blooming stock. A light shade not only increased flower size under air conditioning, but also improved color. With cooler greenhouse temperatures, a light shade does not seem to lower production, but does improve quality.

7. Cheese cloth that has been sprayed with an insecticide can be suspended several feet from and enclosing the pad. This impregnated cloth not only will lower thrip infestation, but will filter out cottonwood seeds and other flying type seeds and will be much easier to keep clean than the pad.

8. Wind breaks have been suggested for growers who occasionally have strong winds blowing directly into fans. By erecting a barrier 10 to 15 feet from the fan, much of the direct force of the wind can be eliminated.

9. The use of a detergent as an additive to the water has in many areas improved the job of wetting. Also copper sulfate when added to the sump will retard pad rot. Small amounts are effective. One cup per 50 gallon sump per week will be adequate.

#### Greenhouse cooling by fan and pad method WILL NOT:

1. Cause more disease problems, but will ease the situation.

2. Be restricted to low humidity areas, but eventually will be used in all areas.

3. Detract from the keeping quality of flowers.

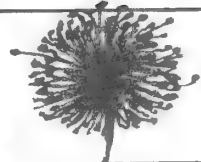
4. Be too costly to operate.

Combination systems, using both the fans and high pressure mist have been used in several localities this summer, but it is too early to tell whether this system will be practical. Work done along these lines to date is encouraging.

Cost figures have ranged from 12 cents per square foot to 40 cents, depending on how elaborate the job.



*Excellent Summer Crops in Air Cooled Greenhouses*



## Cultural Pointers

### Blindness

Blindness is associated with temperature. When plants are grown below 50 to 55 degrees during the bud initiation period, many varieties will produce blind growth. In "Year-Round Flowering" we have found that chrysanthemums should be grown in a 60-degree temperature to insure good bud development. However, there are some varieties which require a higher temperature, and there are likewise varieties that will initiate their buds at a lower temperature; but it is safe to recommend a 60-degree temperature.

### Petal Burn

When blooming chrysanthemums during high temperatures and high light intensity, it is advisable to cover the beds with a cheesecloth stretched about 18 inches above the top of the developing blooms. This covering will also help keep dirt off the open blooms. Sunburn sometimes is confused with flower ray blight, which is caused by Botrytis. Botrytis is more abundant during periods of high humidity and low temperatures. Ray blight can be controlled by spraying with **Parzate** when the color shows and then repeating the application every 5 days.

Adequate moisture at the roots will help prevent petal burn during the hot summer days.

### Cloth Houses

Much has been written about the construction and care of the cloth house. It seems that this subject is well taken care of, although there are a few new ideas that should be mentioned.

To grow quality stock, it is necessary to use some type of covering such as aster cloth, onion bag or Saran. Saran plastic shade cloth woven from flat, elliptical yarn is now available to give varying percentages of shade. Cloth can be obtained that will cast 46% to 90% of shade. The cloth that casts 46% shade is recommended for chrysanthemum culture. Saran will outlive copper screening.

### Plastic Houses

Many growers are erecting plastic houses used for the production of standard and pompon chrysanthemums. The lower cost of erection is the attractive feature. Installing the wet pad and fan system eliminates the costly conventional greenhouse ventilators. The usual width is 18 to 20 feet. The cost of erecting a plastic house is around 25-50 cents per square foot when the 4 mil polyethylene plastic is used. More durable plastics will raise the cost.

### Shipping Flowers

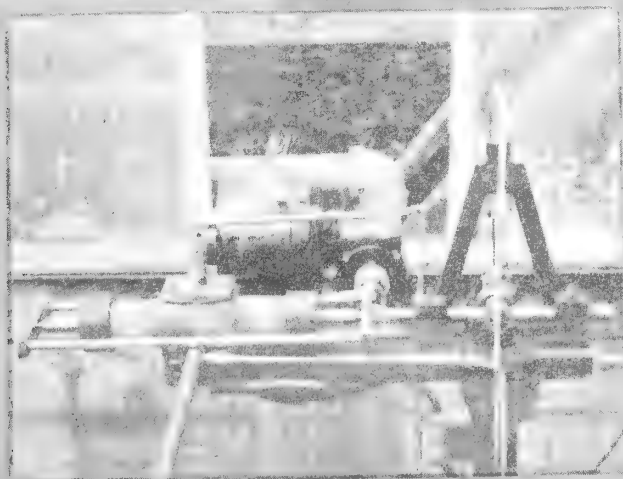
Packing of cut flowers should be carefully studied. The most common error is over-crowding in the shipping boxes. Not securely fastening the blooms in the box will cause bruising of the petals. Cleating or sewing the stems to the box is essential. Cushion the blooms by placing enough padded paper at the bottom of the corrugated box and between the layers of blooms. Wrap the pompons with a loose wrapper. Chrysanthemum "Saf-Pak" is very helpful in shipping standards to market. One dozen blooms are held securely in one "Saf-Pak" holder.

Long distance shipments carry better if the cut flowers are packed dry. Reduction of temperature is accomplished by precooling the packed cut flowers.

### Supports

With high labor costs, it has become necessary to eliminate some of the labor in supporting standards and disbuds. The old way of supporting with stakes or stringing each plant has given way to the box-wire and cross-string method of support. Turn-buckles placed near the end of the bed will keep the wires much tighter. Some growers are only using one layer of wire and cross strings and are gradually raising it as the crop grows.

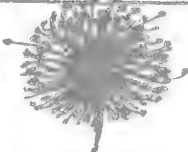
Pompons are usually supported by the string and wire method similar to that described above. Two layers of wires are necessary to give the pompons good support. When growing out-of-doors or in cloth houses, heavier wire is necessary to give proper support, because moisture often collects in the open blooms causing extra weight.



*Fert-O-Ject Model E*



*Plastic house cooled with pad and fans*



## Insects and Their Control

### Aphids, or Plant Lice

All aphids are true sucking insects that insert their beaks through the surface of the leaf or stem and extract the juices from within.

**INJURY.** The feeding of aphids causes the plants to become sickly and stunted. The leaves curl inward, and when the flower terminal is infested, the blooms will be deformed. Certain varieties of chrysanthemums are more susceptible to attack than others.

**CONTROL.** **Nicofume Fumigation** is an easy method of controlling the black aphid but will do very little to control the green or straw-colored aphids. **Lindane** or **Parathion** is much more effective on the very resistant green or straw-colored aphids. **Vapotone** is also effective when used at higher concentrations. **Malathion** good for control of aphid and spider mite.

### Chrysanthemum Leaf Miner

The larva or maggot disfigures and weakens chrysanthemum plants by mining in the leaves. It may do considerable harm to the crop, but is easily held in check.

**INJURY.** The young maggots burrow in the leaf tissue, leaving the upper and lower surfaces intact. The tunnels are irregular and winding. White blotches are thus formed, which later turn brown, and the leaves may die.

**CONTROL.** As soon as it is noticed that any leaves are infested, they should be picked off. **Parathion** or

**TEPP** aerosol bombs or sprays containing **Lindane**, **Chlordane** or **Parathion**, are very effective.

### Chrysanthemum Midge

The chrysanthemum midge is one of the most serious pests with which the grower has to deal. Under optimum conditions, a little over a month is required to complete the life cycle from the egg to the adult. The eggs are reddish-orange in color and are usually deposited on the tender tips of the growth. Under favorable conditions, the eggs hatch in about three days. The larva wanders about over the surface of the leaf for a day or two before finally penetrating into the leaf.

**INJURY.** The midge attacks all parts of the plant but prefers the tender growth. If the infestation takes place when the plants are small, they fail to grow, although if the plants are well-developed when the infestation starts, the buds blight or are deformed, and the plant is rendered unsalable.

**CONTROL.** **Lindane** is effective against young and adults.

**Parathion** aerosols effective, but require frequent applications.

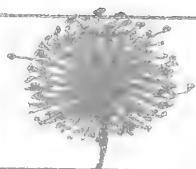
**DDT** effective against adults—repeated applications necessary.



*Aphids*



*Gall Midge*



## Insects and Their Control

### Corn Ear Worm

The corn ear worm is a green to brown, nearly smooth caterpillar often mistaken for a cutworm when found within the buds or on the open flowers.

**INJURY.** It is very destructive to the opening buds, for it feeds on their petals and other parts, deforming if not entirely ruining the flowers.

**CONTROL.** If the attacked plants are blooming, spraying is out of the question, but thorough treatment with a 3 or 5% **D.D.T.** dust is recommended. After they have worked their way into the buds and are found to be feeding on the open flowers, hand-picking is the only remedy. Spraying the plants with **Deenate 50W** will control them before the color shows. **Parathion** fumigation will also keep them under control.

### Cutworms

The larva is dull colored and from one to more than 2 inches in length. They are most active at night, and usually spend the day coiled up just under the surface of the soil at the base of the plant. They should not be confused with the corn ear worm, which cannot be controlled by poison baits.

**INJURY.** Cut worms obtain their food by biting out sections of the leaf, stem or bud. Various species attack different parts of the plant. The one that is most damaging climbs to the top of the stem and eats into the flower buds.

**CONTROL.** Those cutworms that feed on the foliage can best be controlled with **Deenate 50W** spray using  $1\frac{1}{2}$  pounds to 100 gallons of water. **Parathion** has been suggested as a good control measure and is more effective as a spray.

### Greenhouse Leaf Tyer

It gets its name from its habit of spinning light webs inclosing 2 or more leaves or tying together the parts of a single leaf. This caterpillar is very active, and when disturbed, will wriggle off the leaf, often backwards, lowering itself on a silk-like strand.

**INJURY.** When first hatched, the larvae eat out shallow holes on the under side of the leaf. As they grow, they enlarge these holes but usually do not cut through to the upper surface. The result is that the leaves become skeletonized.

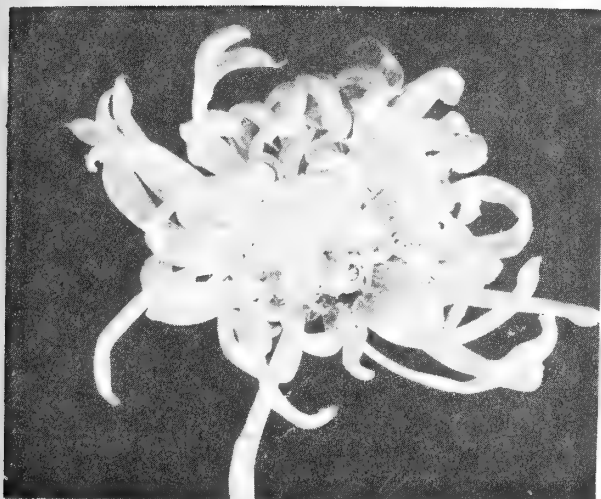
**CONTROL.** The best poison to control the larvae is **Deenate 50W**, either in the form of a dust or a spray. For liquid spray use  $1\frac{1}{2}$  pounds of **Deenate 50W** to 100 gallons of water. Regular fumigations with **Parathion** will keep the leaf tyer under control.

### Mealy Bugs

Mealy bugs are small, sluggish, whitish, soft bodied insects, measuring up to one-quarter inch long, found in clusters on the undersides of the leaves or in the leaf axils.

**INJURY.** This pest sucks the juices from the stems and leaves, discoloring and deforming the foliage.

**CONTROL.** **Parathion** or **Dithio** are the most effective. Repeated applications necessary.



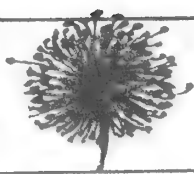
*Corn Ear Worm Damage*



*Leaf Tyer*



*Mealy Bugs*



## Insects and Their Control

### Mites

Cyclamen mite and broad mite are often found on the same plants at the same time. Broad mite could pass through a complete generation in 4 to 5 days at 70 to 80 degrees, while the cyclamen mite will take 4 to 5 times longer.

**INJURY.** Infested leaves become deformed curl from the outside inward, and wrinkle so that pockets and pit-like depressions are formed. When the infestation is severe, the mites collect about the buds, causing them to blight. Oftentimes white varieties will show occasional red petals.

**CONTROL.** Endrin at 1-400 with DuPont Spreader Sticker 1-2000 gave excellent control. Kelthane also is effective. Systox used as a soil drench has been found effective in mite control. P40 used at the rate of 3 pounds per 100 sq. ft. is also effective.

### Red Spiders

There are several species of red spiders that attack the chrysanthemum. They vary in color through yellow, orange and red. The body is oval in outline and bears 8 well-developed legs.

**INJURY.** Red spiders pierce the epidermis of the leaf and draw the liquid contents from the cells, causing the leaf to turn pale around the injured portion. They prefer to collect on the under surfaces of the leaves, which they cover with silken threads.

**CONTROL.** Aramite, Chlorobenzilate, Kelthane, Parathion or Malathion spray or Aramite, Chlorobenzilate, Dithio, Parathion or Malathion bomb. P40 at 3 pounds per 100 sq. ft. after plants are well established; especially desirable for cloth house operators,

will also control foliar nematodes. Plantfume 103 smoke generators and Fulex Parathion Fumigators are simple to use and very effective. Dithio is much safer than other insecticides when used on open flowers. Alternating the insecticides will very often give better control.

### Symphylids

Symphylids are small white creatures about one-eighth to three-sixteenth inches long. About 40-60 days are necessary for the completion of the life cycle.

**INJURY.** Symphylids destroy the fine root hairs and small rootlets, thus stunting the plants and often killing them outright.

**CONTROL.** Complete control can be obtained with Lindane applied to the soil. Lindane can be applied to the surface of the soil either as a dust or as a wettable powder in a convenient amount of water. Application can be made when plants are in the bed, but best results are obtained if the insecticide is worked into the soil prior to planting. Use Lindane 25W at the rate of 8 ounces per 1000 sq. ft. or 1% Lindane dust at the rate of 10 pounds per 1000 sq. ft.

### Sowbugs

**INJURY.** Sowbugs often become so plentiful in the greenhouse that they eat the newly-planted cuttings at the base.

**CONTROL.** Any of the many poison baits will give partial control, but a complete spraying with Deenate 50W under the benches has given excellent control.



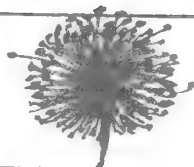
Mite Injury

Red Spider Injury



Symphylid. Above, adult — below, eggs and young





## Insects and Their Control

### Tarnished Plant Bugs

The tarnished plant bug or sting fly comes into the greenhouse through open doors and ventilators in late summer or early fall and does considerable harm to this crop. Chrysanthemums growing in the open are frequently affected. Varieties such as Mary L. Hall and Sea Gull are attacked to a greater extent than other varieties.

**INJURY.** It has sucking mouth parts and obtains its food by inserting its long, slender beak into the plant tissues and sucking up the contents of the injured cells, apparently injecting saliva, which causes the death of the tissue in the immediate vicinity. The stem is often slightly bent, and the terminal growth is malformed because of this injection.

**CONTROL.** Early morning spraying or dusting with any of the pyrethrum materials will kill those bugs that are present but this will have to be done each day for complete eradication. **Deenate 50W** and **Malathion** have been giving fair control, but again these insecticides are best used as a contact. **Parathion** fumigation will control this insect in the greenhouse.

### Termites

Termites are not ants, though often called white ants. The food of termites is wood or cellulose. Soil inhabiting forms are the most common in the greenhouse.

**INJURY.** Termites sometimes injure chrysanthemum plants by working up the center of the plant and

hollowing out the stem. This injury will eventually kill the plant.

**CONTROL.** Clean up all wood debris in soil. Replace old wooden benches. Keep wooden bench supports from direct contact with the ground.

### Thrips

The chrysanthemum is usually attacked by one or more species of thrips. These small, narrow-bodied, active insects which range in color from yellow to brown or almost black, injure both the leaves and the blossoms. Thrips are a real threat to Florida mum growers.

**INJURY.** Thrips have mouth parts that are fitted for piercing and scraping the leaf surface and for sucking the juices and other cell contents. The upper surface of the foliage is covered with whitish blotches, while minute black specks appear on the lower surface. Unless a constant watch is kept on the plants and control measures are properly executed, thrips are capable of causing severe injury within a short time.

**CONTROL.** **Deenate 50W** used at the rate of 1 pound to 100 gallons of water is a very effective control. Other insecticides containing **Lindane** are also recommended. **Parathion** will control the chrysanthemum and onion thrips. Regular dustings or spraying are necessary where infestation is heavy. **Dieldrin** is also very effective.



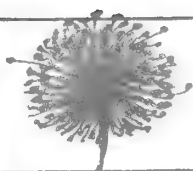
Tarnished Plant Bug



Thrip Injury



Adult Onion Thrip



## Pests and Their Control

### Foliar Nematode

The spread of this pest has been very rapid in recent years owing to the increased trade in chrysanthemums and the ease with which the nematode is transported in plants and cuttings. Too few growers have become familiar with this pest, and consequently no effort has been put forth to control it.

**SYMPTOMS.** The leaves attacked become blotched, turn at first greenish-yellow, then brownish, later gray and finally black until the entire leaf dies and hangs down on the stem. Under conditions of high hu-

midity both in the open during a wet season and under glass due to excessive watering, the spread of the pest may be extremely rapid.

**CONTROL.** P40 applied at the rate of 3 pounds per 100 sq. ft. has given good control. Wait 2 to 4 weeks after benching before applying. It is better to apply P40 in 2 applications, 1½ pounds each time, 7 to 10 days apart. The latest findings show that foliar nematodes can be controlled with **Parathion** either as an aerosol or liquid spray. **Systox** emulsion applied as soil drench 2-4 weeks after planting is effective.

## Diseases and Their Control

### Bacterial Stem Rot

**SYMPTOMS.** Cuttings may appear healthy although infected, grow well up to 8-12 inches high when the stem becomes soft and off-colored. Pith is jelly-like or lacking in such stems. Tops of plants then turn black, exude drops of liquid, and the stem often splits. Develops at high temperatures (75-90 degrees). Often shows up after the plants are pinched.

**CONTROL.** Remove and burn immediately all affected plants. Wash hands thoroughly after handling plants. Steam infested soil before replanting. Avoid dips for cuttings.

### Collar Rot or Stem Rot

**SYMPTOMS.** The area of stem just at the soil level will show dark colorings first. The entire stem will be girdled, and eventually the plant will turn yellow and die. Usually caused by the common damping-off organisms such as *Rhizoctonia*, *Fusarium* or

*Pythium*. More prevalent when temperature and humidity are high.

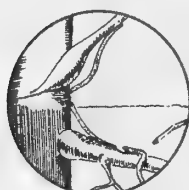
**CONTROL.** Do not plant cuttings that have been affected with damping-off. Remove all affected plants when noticed. Do not keep the soil too moist. Run a lower humidity if possible. Plant cuttings no deeper than depth they were in propagating media, as too deep planting will hasten development. Have soil well prepared, as compact soils will also encourage trouble. **Terrachlor**, **Parzate**, or **Fermate** drench.

### Mildew

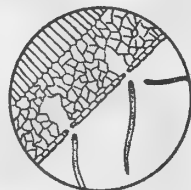
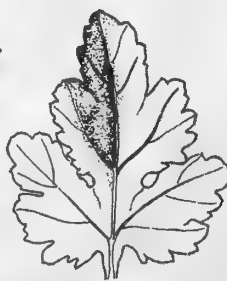
**SYMPTOMS.** Whitish powdery growth on upper surface of leaves.

**CONTROL.** Spray at regular weekly intervals with a good wettable **Sulfur**, 1½ pounds per 100 gallons of water to which a good commercial spreader has been added. Spray with **Mildex** 4 ounces per 100 gallons of water plus spreader whenever disease appears.

### BIOLOGY OF THE FOLIAR NEMATODE



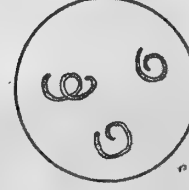
Eelworms moving from the ground up the outside of the stem and leaf-stalks into the basal leaves. (Spring)



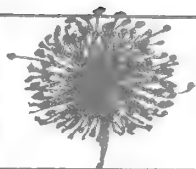
Eelworms entering leaf through the stomata. (Spring-Summer)



Eelworms feeding and breeding in leaves and migrating upwards from leaf to leaf (Spring-Autumn)



Eelworms overwintering in soil, dead leaves and in basal buds. (Winter)



## Diseases and Their Control

### Ray Blight or Flower Spot

**SYMPTOMS.** The petals first show little spots and then the entire petal begins to rot. May be caused by *Botrytis* or *Ascochyta*. *Botrytis* is spread primarily by splashed water.

**CONTROL.** It is controlled by lowering humidity or spraying plants with **Parzate** when they show color. Spray with **Parzate** one ounce to 4 gallons of water plus one-third teaspoonful of **Du Pont Spreader Sticker** on the flower from below and above as soon as color shows and continue at 5-day intervals. **Orthocide 50W** one ounce to 4 gallons of water plus spreader used as a spray similar to **Parzate** was found a good control. An electric fan, placed above the plants will circulate the air sufficiently to reduce disease.

### Root Knot Nematode

**SYMPTOMS.** The nematodes or eelworms bore into the roots of the plants and cause knots or galls to develop on the root systems. As a result the plants are weak, yellowish and stunted in growth.

**CONTROL.** Steam sterilization of the soil is the most effective. **MC 2**, **Vapam**, **VC 113**, **D-D** and **EDB** are chemical soil sterilizing materials that have given good control of root knot nematodes.

### Rust

**SYMPTOMS.** Chocolate brown powdery pustules on lower surface of the leaves.

**CONTROL.** **Parzate**, one ounce to 4 gallons of water is most effective.

### Septoria Leaf Spot or Leaf Blight

**SYMPTOMS.** Distinct circular spot on the leaves. These are greyish-brown in color and become brittle in the center. Affected leaves may turn yellow and die. More prevalent in the open. Some varieties are more susceptible than others. Sea Gull is very susceptible.

**CONTROL.** When cuttings are received, dunk the tops into **Fermate** (2 tablespoons to a gallon). Spray the plants with **Parzate** one ounce to 4 gallons of water plus one-third teaspoonful of **Du Pont Spreader Sticker** every 10 to 14 days. Cloth house mums should be kept covered until the buds can be seen.

### Verticillium Wilt or Seidewitz disease

**SYMPTOMS.** Margins of leaves turn yellow and eventually wilt or dry up. This begins at base of plant and works up the stem. May affect one side of a stem or plant more than the other. No distinct spots. Varieties vary in resistance to this disease.

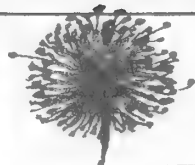
**CONTROL.** Verticillium wilt can be avoided by purchasing our disease-free cuttings produced from **cultured stock**. It is also necessary to plant only into sterilized soil.



*Dodder Growing on Mums*



*Septoria Leaf Spot*



## Pests and Their Control

### Viruses

The word "virus" is being referred to by the medical profession as well as by the florists, and a short explanation of virus should prove of interest.

Viruses of the chrysanthemum are considered to be infectious; that is they can be transmitted to a healthy plant only by contact with an infected plant. They are not carried in the soil, water or air as are other diseases caused by fungi and bacteria.

The virus particles cannot be seen by the most powerful microscopes. Most of them will pass through bacterial filters. They respond like living organisms. They are always present in the sap of diseased plants and can be transmitted to a healthy plant through wounds or by mechanical means. The chrysanthemum is known to be affected with 5 viruses, namely yellows, Aspermy, rosette, mosaic and stunt. Stunt is the only one that has caused much concern. It has been found that aphids as well as mechanical handling will cause stunt to spread.

Once a plant is infected with a virus, it usually always remains affected. To define a virus, the following is as good as any: A virus is a protein which requires the presence of living cells for multiplication and it causes changes in the structure and functions of living cells.

### Combination Sprays

At times it is more economical and convenient to mix two or more sprays and apply them in one operation. Before such mixtures are prepared, the grower should be sure no reaction harmful to the plants will occur, and that the efficiency of the separate ingredients is not reduced. Consult your State Entomologist or Plant Pathologist for information on combination sprays for specific crops.

A good combination spray for chrysanthemums which will control most diseases and insect pests, can be made with Lindane, Parzate, DDT and Vapotone. Details on dilutions are as follows:

Material	Amount to Make		
	100 gallons	20 gallons	3 gallons
Water			
DuPont Spreader Sticker	6 oz.	2 tablesp.	1 teasp.
Lindane	1 lb.	3 ounces	1 1/2 tablesp.
Parzate	1 1/2 lbs.	5 ounces	2 tablesp.
Deenate 50W	2 lbs.	6 ounces	3 tablesp.
*Vapotone	1/2 pt.	3 1/2 tablesp.	1 1/2 teasp.

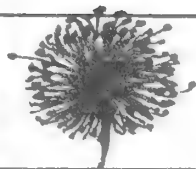
To prepare: (1) Measure out spreader and dilute in small amount of water. (2) Fill tank with required water and add the diluted spreader and stir. (3) Take out a small amount in jar, add the proper amount of the Parzate and shake vigorously until all the powder is thoroughly wetted. (4) Pour this mixture back into the tank, preferably through a fine screen or cheesecloth and stir. (5) Measure out Vapotone and dilute in small amount of water and add to the tank. Keep stirring or keep agitator running while adding the materials.

\*Parathion, Aramite, Endrin may be used in place of Vapotone in this combination spray.

### MATERIAL AND AMOUNT

(per 100 gallons of water for spraying)

2 pounds 15% **Aramite** wettable powder  
 1 pound **Captan** wettable powder  
 1 pound 25% **Chlorobenzilate** wettable powder  
 2 pounds 50% **DDT** wettable powder  
 1 pint 25% **Dimite** emulsifiable solution  
 1 quart **Endrin** emulsifiable solution  
 1 1/2 pounds **Fermate** wettable powder  
 1 pound 25% **Lindane** wettable powder  
 1 1/2 pints 50% **Malathion** emulsifiable solution  
 2 pounds 25% **Malathion** wettable powder  
 1 1/2 pounds 15% **Parathion** wettable powder  
 1 1/2 pounds **Parzate** wettable powder  
 1/4 pint 40% **TEPP** emulsifiable solution  
 1/2 pint 20% **TEPP** emulsifiable solution  
 1 to 1 1/2 pounds 25% **Kelthane** wettable powder  
 1 pint 25% **Kelthane** emulsifiable solution



# CHRYSANTHEMUM VARIETY DESCRIPTIONS

In the following list (pages 95 to 132) *New Varieties for 1958* are enclosed in a box. These new varieties will not be available before May 12, 1958.

## WHITE POMPONS, DECORATIVES, SINGLES & ANEMONES

Variety	Description	Normal Flowering Date	Price
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Variety	Description	Normal Flowering Date	Price
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### 7-WEEK GARDEN VARIETIES (Pinch July 7)

**OSTOSA** Sept. 25 S-3

An intermediate paper white pompon on a semi-dwarf plant. Early and very free flowering. A good addition to the spring garden pots.

**CHRIS COLUMBUS** Oct. 1 S-6

Intermediate cream decorative. Short, compact and prolific. Top white garden variety for spring pot blooming. Also tops for 3" pot blooming.

**LARRY** Oct. 1 S-1

Intermediate paper-white pompon. Compact short habit defines its place as a high quality pot variety suitable for May and June and again in October. This is tops among the 7-week whites for pots.

**AVALANCHE** Oct. 5 S-2

Large decorative. Tall. Flowers on early crown buds.

**HORIZON** Oct. 5 S-4

Intermediate white pompon. Outdoor cut flower.

**BENORA** Oct. 8 S-3

Intermediate pompon. White with ivory centers. A real improvement over Chris Columbus for durability.

**MAESTRO** Oct. 10 S-2

White pompon. Dwarf, compact growth. Excellent for borders and spring pot plants.

**CLASSIC** Oct. 10 S-3

Small white semi-formal pompon. Outdoor cut flower.

**SILVERPLATE** Oct. 12 S-3

White decorative. Outdoor cut flower and spring pot plant.

### 8-WEEK VARIETIES (Pinch July 14)

**PILGRIM** Oct. 15 S-2

Intermediate pompon. Clear white. Temperature tolerance of Chris Columbus. Improving that variety in all respects. Spring pot plant program. Durable compact garden variety.

**BLIZZARD** Oct. 15 S-4

Small productive formal pompon. Clear white. Tolerates 54°. Spray programs May to Oct. Cloth house July and Aug.

**CALIF. WHITE DAISY** Oct. 15 S-3

Intermediate pure white single. For the very early cloth house. Very temperature tolerant. (Kimoto's White).

**ECHO** Oct. 15 P

Paper-white formal pompon of intermediate size. Recommended in the greenhouse spray program from May thru October. Satisfactory as an outdoor cut flower for natural flowering.

Sold under agreement only

**IRENE** Oct. 15 S-2

Small pompon.

**GARDENIA** Oct. 15 S-5

Large white decorative. Compact and responsive. Vigor improves Ostosa. Pot plant programs March to early October. Prolific and showy garden variety. Benefited from disbudding.

**NORONA** Oct. 15 S-3

Small ivory white solid pompon.

**PRISTINE** Oct. 20 S-6

Intermediate pure white pompon. Cloth house July to Sept. Greenhouse April to Oct.

**SHIBUYA WHITE** Oct. 20 S-2

Intermediate white daisy. West coast variety.

**SILVERTONE** Oct. 24 S-4

Intermediate white daisy. Similar in habit to Reward and Buckskin. Vigorous and productive. Fine high temperature performance. Tolerates 54°. Cloth house July to Sept. and greenhouse May through Oct.





## WHITE POMPONS, DECORATIVES, SINGLES & ANEMONES

Variety	Description	Normal Flowering Date	Price
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### 9-WEEK VARIETIES (Pinch July 21)

#### POPCORN Oct. 25 S-5

Intermediate white pompon. Light pink at low temperatures. Outstanding production. Very good June through Sept. under glass, or in the cloth house from July through Sept.

#### WHITE POPCORN Oct. 25 S-6

White sport of Popcorn. No trace of pink in flower at low temperatures therefore may be flowered earlier and later in spring and fall.

#### MONTY Oct. 25 S-5

Large white decorative, very good as pot plant, recommended year round through the South. March through Dec. in the North.

#### SILVER BOW Oct. 25 S-3

Large white formal disbud pompon. Responsive and productive in the fast disbud programs. Displays a high degree of tolerance to summer greenhouse temperatures.

#### KEEPSAKE Oct. 25 S-7

White pompon, tall with good spray formation, recommended March through Oct., will be suffused with light pink during early Spring and late Fall.

#### WHITE KEEPSAKE Oct. 25 S-5

Intermediate ivory pompon. It is devoid of pink tinges at low temperatures. Will tolerate 56°. At high temperature finish, more ivory than Keesake.

#### PINOCCHIO Oct. 25 S-6

Small pure white pompon. Formal and distinctive for May through Oct. in the greenhouse, Aug. and Sept. in the cloth house.

#### SONGSTER Oct. 25 S-5

Intermediate white pompon. Withstands heat well. Greenhouse June through Sept. Requires high light intensity.

#### CREST Oct. 25 P

Medium sized formal pompon disbud. Its dwarf habit makes it a first class pot variety for mid-March thru mid-November. A relatively fool-proof pot variety during high light intensity periods of the year. Far more efficient than Granite State and will easily average 5 breaks per plant. Intolerant of winter low light environments.

Variety	Description	Normal Flowering Date	Price
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#### CRYSTALLITE Oct. 25 P

Intermediate formal pompon. Paper-white. Responds earlier than Keepsake under high temperature summer conditions. Does not tolerate low temperatures for initiation. Response is uniform and rapid at 60° or over. A high caliber and efficient variety from May thru mid November as a natural spray in the greenhouse.

Sold under agreement only

#### VESTA Oct. 25 S-4

A white button pompon for summer and early fall flowering. Best during the long day period of the year.

#### ARCADIA Oct. 28 S-3

Intermediate pompon.

#### MEMENTO Oct. 30 S-3

Intermediate chalk white single with green discs and durable petals that retain their original form into maturity. Reliable cloth house variety July through Oct. and in the greenhouse from May through Oct.

#### SILVER CLOUD Nov. 1 S-3

Intermediate white single, flower April through Oct. under glass.

#### HALO Nov. 1 S-5

White Daisy for high temperature periods in the greenhouse.

#### SEA GULL Nov. 1 S-5

Intermediate ivory pompon.

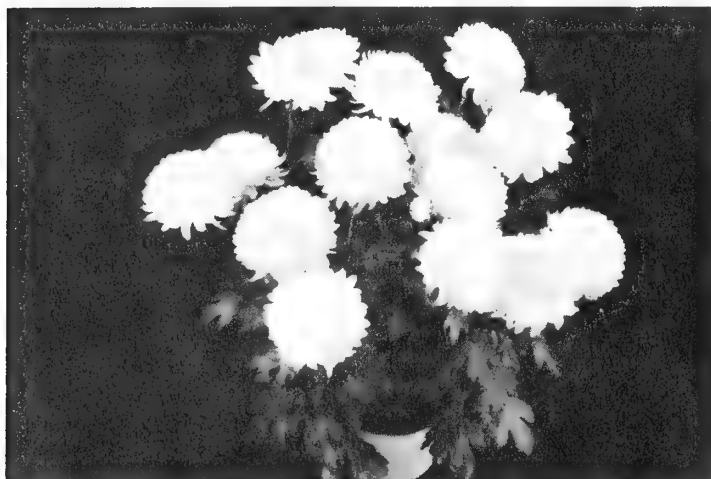
#### ALASKA Nov. 1 S-6

Intermediate white anemone with white cushion. Temperature tolerance of Shasta. Productive, responsive and versatile. Spray programs from late April to early Nov. A greater degree of cushion development than Shasta in summer temperatures.

#### WHITE DOTY Nov. 1 S-4

Large Pompon, disspray and disbud.

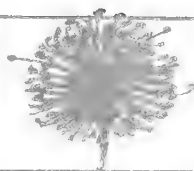
SEE PRICE LIST ON PAGE 132



Crest



Crystallite



## WHITE POMPONS, DECORATIVES, SINGLES & ANEMONES

Variety	Description	Normal Flowering Date	Price
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### 10-WEEK VARIETIES (Pinch July 28)

**SNOWCLAD** Nov. 1 P  
Medium, paper-white disbud. Semi-short, stocky habit will provide a grower with a "never-fail" white pot mum the year round. Medium treatment. Flowers a week earlier than either Chalk Cliff or Oregon and develops superb quality during the winter months when Wilson's White is questionably soft. Heavily petalled flowers contribute to a relatively long period of freshness. Bud initiation will take place in temperatures as low as 52°. Has class, substance, and is tolerant to high temperatures. Of Portrait size, it rates with the best. A pure white Criterion.

**Sold under agreement only**

**THISTLEDOWN** Nov. 1 P  
Medium to small novel white decorative pompon. An improved Snowdrift flower. Provides a more fully double form of feathery serrated petals in addition to being a more clear white color. Natural spray programs from May thru October.

**CAMILLE BAUMANN** Nov. 3 P  
Medium to large single disbud. White spindle on tubular ray petals. Novel form that will enrich variation in fast disbud programs from April thru mid-December. Never fails to grow vigorously, responds uniformly, and flowers on rigid stems. Especially valuable to retail growers who are seeking new and unusual beauty.

**SNOW CRYSTAL** Nov. 5 P  
Medium to large ivory white spider disbud. Fully double form. Feathery spooned petals. Captures much of the delicate Snowdrift form from which it was bred. Strong habit, and wiry stems make it an exclusively novel pot variety useable the year round. Best with tall treatment. Easily averages five uniform breaks from a soft pinch. A variety that will create interest.

**Sold under agreement only**

**FREEDOM** Nov. 5 S-2  
Intermediate pure white single. Fine green eye. Best flowering season in the cloth house is Sept. and Oct. and under glass Oct. and Nov.

**WHITETOP** Nov. 5 S-9  
Intermediate chalk white decorative. Productive and dependable. Top notch white. Greenhouse April to Nov. and in cloth house July through Oct.

Variety	Description	Normal Flowering Date	Price
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**TIPTOP** Nov. 5 S-5  
A distinctive form mutation from Whitetop. The petals are completely tubular. Possesses fine substance and does not shatter. When cut on the green side, Tiptop is unusually attractive and has no counterpart in present pompoms. Valuable in the same periods as Whitetop.

**FEATHERTOP** Nov. 5 S-5  
An unusually beautiful sport from Whitetop. Petals are deeply serrated or feathered in a manner similar to Snowdrift. Non reflexing petal habit coupled with partially tubular petals contribute to larger size flowers having more substance than parent. Improved vigor and response. Chalk white with smart green eye. Feathertop is not a novelty. It will increase the demand for white in all periods and areas where Whitetop is grown. In many arrangements it can serve the purpose of carnations.

**ICEBERG** Nov. 5 S-7  
Large chalk white pompon. Tall vigorous growth. Color clarity of Whitetop and Belray. Best year around disbud. When not disbudded, suggest adding one additional long day week for best spray formation. Recommended to grow as sprays from April to Dec. and in the cloth house Aug. through Oct. Temperature tolerance of Whitetop. Tolerates summer temperatures well. Best 10-week white disbud.

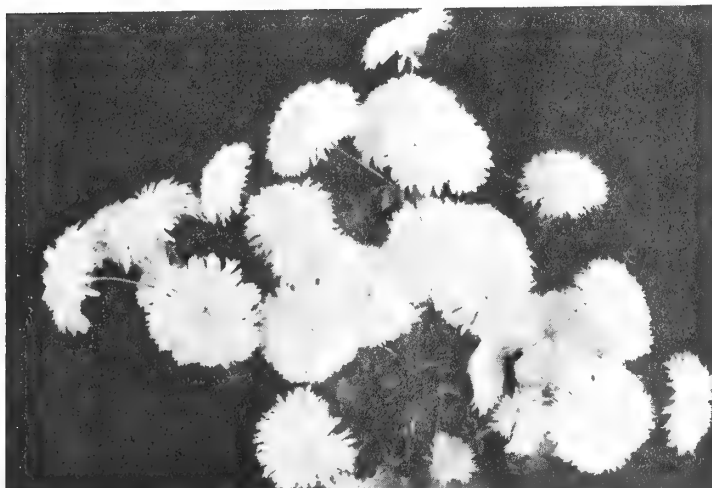
**MADONNA** Nov. 5 S-5  
Intermediate white pompon. Takes high temperature well. Flower from June to Oct.

**ENCORE** Nov. 5 S-6  
Intermediate pompon. Pinks at low temperatures. Requires 60° minimum for bud initiation. Flower under glass from June to natural season and in the cloth house from mid Aug. to early Oct. Superb form and rigid growth.

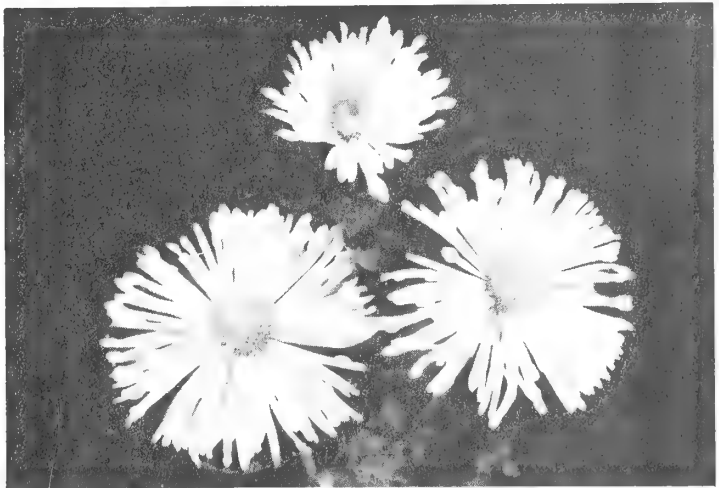
**WHITE ANEMONE** Nov. 5 S-3  
Large anemone, disspray and disbud.

**WHITEHOUSE** Nov. 5 S-2  
Intermediate white anemone. Breaks vigorously and thrives best with high temperatures. Very uniform and responsive. Recommended for pots from May to Nov. A summer Little America for pots.

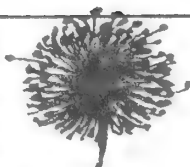
SEE PRICE LIST ON PAGE 132



*Thistledown*



*Camille Baumann*



## WHITE POMPONS, DECORATIVES, SINGLES &amp; ANEMONES

Variety	Description	Normal Flowering Date	Price
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Variety	Description	Normal Flowering Date	Price
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## 10-Week VARIETIES (Cont'd)

<b>WHITE MENSA</b>		Nov. 5	S-2
Large ivory single.			
<b>MOONGLOW</b>		Nov. 8	S-3
Intermediate white pompon. Requires 60° minimum for initiation.			

<b>CHALK CLIFF</b>		Nov. 10	P
Large chalk white decorative pompon. The answer to a white Portrait for pots the year round, using MEDIUM TREATMENT. Foliage, habit, and flower form provide a striking resemblance. Somewhat larger than Portrait, its heavily petalled flower contributes to a very fresh appearance with extended keeping qualities. Also has a more vigorous breaking habit. A versatile and beautiful white that will pay its way in any pot plant program.			

Sold under agreement only

<b>ENSIGN</b>		Nov. 10	P
Intermediate decorative disbud. An ivory-white Bonnaffon seedling of excellent substance with a slight cream center and dimpled petals. Well adapted to either the fast disbud or pot plant programs from April thru December. TALL TREATMENT for pots. Earlier and taller habit than Bonnaffon, but has retained the same beautiful foliage and breaking habit. Useable the year round in high light areas.			

Sold under agreement only

<b>PACESETTER</b>		Nov. 10	S-6
Intermediate pure white single. Best as sprays from April through June and from Sept. to natural bloom. Also grown some as a pot plant from Sept. to June.			

<b>ICE CREAM</b>		Nov. 10	S-2
Intermediate decorative with 3-4" diameters. White to cream depending upon temperature. Very reliable. Extraordinarily vigorous having a wide range of temperature tolerance for bud initiation. A valuable addition to the fast disbud program from May to Jan. As large a disbud as Iceberg.			

<b>ILLINI IGLOO</b>		Nov. 10	S-6
Intermediate ivory white pompon. Good for outdoor shading from July through Oct. Formal and durable, tolerates 54°. Recommended from April through Dec.			

<b>SHASTA</b>		Nov. 10	S-9
Large Anemone. Tolerates 54°. Very dependable when grown in sterilized soil. Recommended as sprays and disbuds from April through Dec.			

<b>DYNAMO</b>		Nov. 10	S-3
White Pompon. Excellent in natural season.			

<b>VESPER</b>		Nov. 10	S-3
Intermediate pompon.			

<b>NAGONA</b>		Nov. 10	S-2
(Calif. White Mensa). Intermediate cream single.			

<b>LITTLE AMERICA</b>		Nov. 10	S-6
Intermediate pure white anemone. Under glass Oct. and Nov. as sprays and as potted plants from Sept. to mid-May.			

<b>ILLINI SNOWDRIFT</b>		Nov. 12	S-6
Novelty, intermediate, feathered decorative. Valuable in artistic arrangements. Grow as sprays from April through Dec.			

<b>STARDUST</b>		Nov. 12	P
Formal white pompon of intermediate size. Establishes a larger and more shapely Keepsake form. Its smart formal form has strong consumer appeal. Productive and dependable from April thru November in both regular and fast spray programs in either greenhouse or cloth house. A clean vigorous habit that rarely overcrops or delays. Tolerates 56° minimum.			

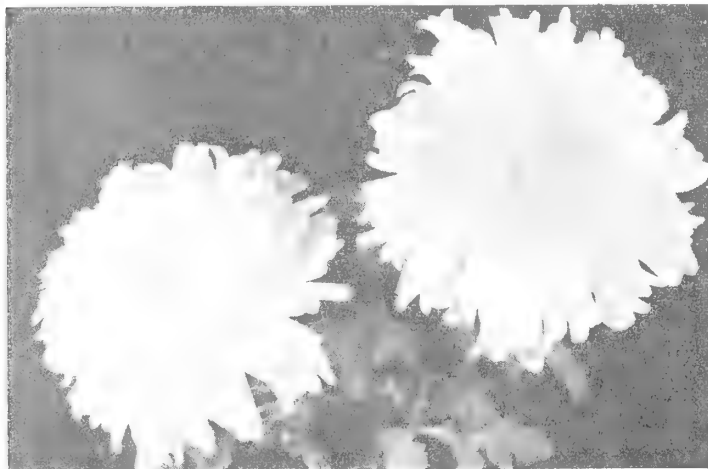
Sold under agreement only

## 11-WEEK VARIETIES (Pinch August 4)

<b>WHITE TAFFETA</b>		Nov. 15	S-5
Pure white sport of Taffeta. Most valuable of the Taffeta group. Recommended for March to May and in Sept. and Oct. programs.			

<b>SCULPTURE</b>		Nov. 15	S-4
Large ivory white daisy. Recommended from mid-March through May and again in Sept. to natural flowering date.			

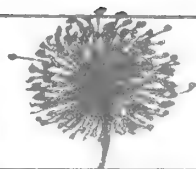
SEE PRICE LIST ON PAGE 132



Ensign



Stardust



## WHITE POMPONS, DECORATIVES, SINGLE & ANEMONES

Variety	Description	Normal Flowering Date	Price
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### 11-Week VARIETIES (Cont'd)

**WHITE NORMA** Nov. 15 S-3  
Large Anemone. Best grown as disbuds from Nov. to early April. White rays and yellow cushion.

**SNOWFLURRY** Nov. 15 S-3  
A white button pompon. Larger than Pinocchio.

**ILLINI STARFLOWER** Nov. 18 S-3  
Large semi-anemone spoon. A novelty in white for the retail grower. Disspray or disbud.

**SEAFOAM** Nov. 20 S-3  
Intermediate ivory white pompon for natural season.

**LONG ISLAND BEAUTY** Nov. 20 S-5  
Large anemone, yellow cushion. Best grown as fast disbud from Nov. to early April.

**GRECO'S CARNATION** Nov. 20 S-1  
Intermediate white pompon. Petals are finely serrated and form somewhat resembles a carnation. Clear white 11-week pompoms are scarce. Performs best under high light and cool finishing temperatures. Suited to the late cloth house and October through November greenhouse programs. Valuable for its natural Thanksgiving season. Not suited to early spring programs.

**ERMINE** Nov. 20 P  
Intermediate ivory-white disbud. Cream-eyed centers. A winter Iceberg for the fast disbud program from November thru April. Extremely tall on the regular schedule. Should be profitably efficient in any cool sixty environment.

**Sold under agreement only**

**JOHN BAUMANN** Nov. 20 P  
Large paper-white spider. Duplex form. Partially spooned petals. A novel and efficient retailers item best grown in a fast disbud program from October thru May. An exceptionally fine winter performer in the North. Considered faster and much more reliable than Illini Starflower during the spring months.

### 12-WEEK VARIETIES (Pinch August 11)

**WHITE PRINCESS** Nov. 25 S-5  
Pure white button. Sport from Princess. Hard and very durable. Requires high temperature for maximum initiation of buds. Tolerates a wide range of temperature for development. Best in high light areas. Well suited to the late cloth house and October through November greenhouse.

Variety	Description	Normal Flowering Date	Price
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**HIGHBROW** Nov. 20 S-5  
Ivory white decorative. Very productive. Superb quality in late cloth house and in the greenhouse from Sept. to Jan.

**NEVADA** Nov. 20 S-4  
Intermediate anemone. Chartreuse cushion.

**PRISCILLA** Nov. 20 S-5  
Intermediate clear white pompon.

**SURFSIDE** Nov. 23 P  
Large single. A clear white. Extra wide petals and green discs. Petallage has substantially more substance than found in either Illini Alba or Sculpture. The added vigor incorporated in this 11-week seedling makes it a splendid co-partner to such varieties as Jubilation, Crackerjack and the Galaxies to be flowered in spray programs from November thru March. Tolerates 56° minimum. Best grown disspray.

**Sold under agreement only**

**ILLINI BOUNTIFUL** Nov. 23 S-2  
Small ivory pompon.

**CRYSTAL BEAUTY** Nov. 23 S-2  
Intermediate pompon.

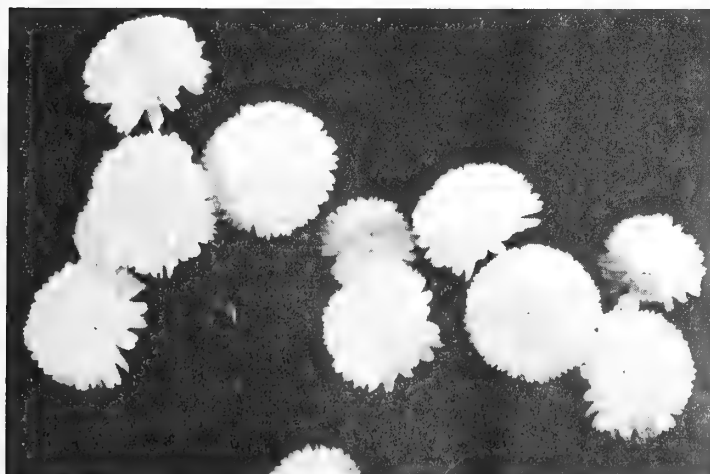
**PARAMOUNT** Nov. 23 S-6  
Intermediate ivory white pompon. Recommended from Sept. through May.

**BELRAY** Nov. 24 S-7  
Large white pompon. Tall grower. One of the best large whites for spring flowering in the greenhouse in March and April and from Oct. through Dec. Also as fast disbuds during the same period. But development slowed by high temperatures.

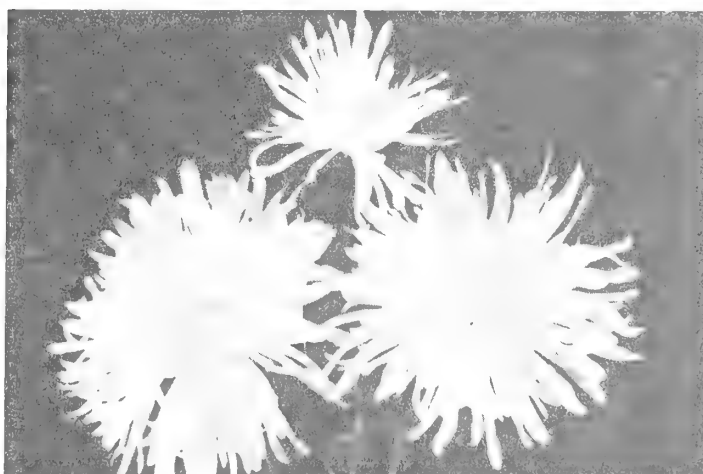
**CARRARA** Nov. 24 S-4  
Intermediate pure white decorative. A short variety that tolerates low temperatures. Bud development is retarded by high temperatures. Finish cool for Oct. through Dec. program.

**SILVERCREST** Nov. 25 S-4  
Small white formal pompon. Markedly improves the appearance and quality of Snowcrest. For flowering from mid-Oct. to April.

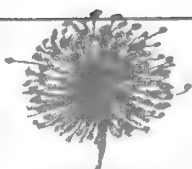
SEE PRICE LIST ON PAGE 132



*Greco's Carnation*



*John Baumann*



## WHITE POMPONS, DECORATIVES, SINGLE & ANEMONES

Variety	Description	Flowering Date	Price	Variety	Description	Normal Flowering Date	Price
<b>12-WEEK VARIETIES (Cont'd)</b>							
<b>WHITE LADY</b>		<b>Nov. 25</b>	<b>S-3</b>	<b>CORDOVA</b>		<b>Nov. 30</b>	<b>S-4</b>
White sport of Beautiful Lady. Disbud.				Intermediate pompon.			
<b>ILLINI PEACE</b>		<b>Nov. 25</b>	<b>S-3</b>	<b>FORTUNE</b>		<b>Dec. 1</b>	<b>S-6</b>
A productive white anemone for Thanksgiving.				Formal white pompon. An outstanding quality flower for Nov. and Dec.			
<b>CHAMP</b>		<b>Nov. 28</b>	<b>S-1</b>	<b>ILLINI GLACIER</b>		<b>Dec. 1</b>	<b>S-4</b>
Large white disbud anemone. Growth is clean and vigorous. Larger than Illini Glacier, approaching the size of White Supreme. Response is uniform and production high in October through April 60° fast disbud programs. Cushion is large, develops well, acquires a chartreuse green overtone. Provides outstanding winter disbuds in a needed anemone form.				Large anemone. Clear white with white cushion. Durable, productive and uniform response. Disspray Oct. through Dec. and March and April. Improves Long Island Beauty in color, form and keeping quality. Requires 60° initiation. Cool finish.			
<b>WHITE VALENCIA</b>		<b>Nov. 28</b>	<b>S-4</b>	<b>MONARCH</b>		<b>Dec. 1</b>	<b>S-2</b>
Large single. Requires high temperatures for bud initiation. Very high quality when grown as disspray or disbud in Nov. and Dec.				Large ivory white decorative.			

## 13-WEEK VARIETIES (Pinch August 18)

<b>SNOWSTORM</b>	<b>Dec. 5</b>	<b>P</b>		<b>ILLINI ALBA</b>	<b>Dec. 5</b>	<b>S-1</b>	
A white decorative pompon of medium size. Represents continued advancement to improve quality, productiveness and low temperature tolerance for northern winter pompon programs. Specifically recommended in greenhouse spray programs from December thru mid-March. Flower size benefited materially when partially dissprayed. Snowstorm's improved traits and ease of flowering will commence to decrease the popularity of Silversmith. Fully tolerant to cool 60° environment.				Intermediate chalk white daisy. Devoid of any tendency to pink either from low temperature or aging. Easily grown and of clean habit. Best described as a white Debutante. Alba will tolerate 56° for initiation and development. Responses are dependable and uniform when lighted through mid March. Best spray formation and height control is obtained with Illini Alba when it is treated as a 14-week variety.			
<b>Sold under agreement only</b>				<b>CAMEO</b>	<b>Dec. 5</b>	<b>S-4</b>	
				Intermediate ivory decorative.			
<b>WHITE ENCHANTRESS</b>	<b>Dec. 5</b>	<b>S-4</b>		<b>ACCLAIM</b>	<b>Dec. 5</b>	<b>S-8</b>	
Large disbud and disspray anemone. Color requires high light intensity and 60° temperatures for maximum clarity. Under cooler finishes it is a smooth shell pink of great beauty. Habit and performance is the same as the original Enchantress. Cushion development is stable and uniform. Recommended for regular and fast programs, December through mid-March.				Large formal type pompon. An ivory white Corsair for Dec. to March 15.			
				<b>SPANGLES</b>	<b>Dec. 5</b>	<b>S-4</b>	
				Small white pompon. A late white Sunnyside.			
				<b>COTILLION</b>	<b>Dec. 5</b>	<b>S-2</b>	
				Intermediate semi-formal pompon. Requires 60° for bud initiation.			

SEE PRICE LIST ON PAGE 132

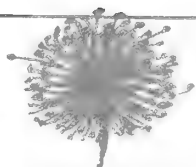


Champ



Illini Alba





## WHITE POMPONS, DECORATIVES, SINGLE & ANEMONES

Variety	Description	Normal Flowering Date	Price
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Variety	Description	Normal Flowering Date	Price
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### 13-WEEK VARIETIES (Cont'd)

<b>NORTHWIND</b>		<b>Dec. 8</b>	<b>P</b>
Medium to large pure white single. Represents a decided improvement in vigor and productive capacity among the presently available white singles for winter production in the North. Durable flowers enable it to be shipped without difficulty. Extremely reliable in cool 60° program. Useful in the regular greenhouse spray program from December thru February.			

**Sold under agreement only**

<b>ORWAY</b>		<b>Dec. 8</b>	<b>S-2</b>
Large white single.			
<b>SNOWDROP</b>		<b>Dec. 8</b>	<b>S-2</b>
White button pompon. Pink tinges at low temperatures.			
<b>WHITE SNOWDROP</b>		<b>Dec. 8</b>	<b>S-4</b>
Pure white sport of Snowdrop. Does not pink, flower from Dec. to March 15.			
<b>ILLINI STARLET</b>		<b>Dec. 10</b>	<b>S-4</b>
Intermediate anemone. Improves Garza in form, growth and clarity of color, best for Dec. bloom.			
<b>IMP. WHITE SUPREME</b>		<b>Dec. 10</b>	<b>S-3</b>
Large anemone. Tall disbud. Finish cool.			

<b>ICECAP</b>		<b>Dec. 10</b>	<b>S-1</b>
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Intermediate chalk white pompon. Icecap combines the responsiveness of Acclaim, the vigor and production of Corsair with the formal beauty of Snowcap. It has Silversmith color clarity without a trace of pink. Will initiate and develop at 56° although, equally as valuable in 60° programs. Because of its extra vigor, best treated as a 14-week variety. An achievement in white for December through mid-March programs. Long sought for and highly desirable in northern, winter programs.

<b>YUKON</b>		<b>Dec. 10</b>	<b>S-4</b>
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Intermediate chalk white single. Tolerates 56°.

<b>SATELLITE</b>		<b>Dec. 13</b>	<b>S-4</b>
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Intermediate cream white pompon. Spray crop from Dec. to March. 15

<b>DOLOMITE</b>		<b>Dec. 13</b>	<b>S-3</b>
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Intermediate clear white pompon. Smaller, later version of Carrara. Taller, more vigorous. Adds quality and color clarity to the Dec. season. Tolerates 56°.

<b>SNOWCREST</b>		<b>Dec. 13</b>	<b>S-5</b>
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Small pompon. Distinctive green eye. Sprays from Dec. to March 15.

### 14-WEEK VARIETIES (Pinch August 25)

<b>TRENTON</b>		<b>Dec. 15</b>	<b>S-4</b>
Intermediate pompon. Good form and substance for natural flowering.			
<b>SILVERSMITH</b>		<b>Dec. 15</b>	<b>S-7</b>
Intermediate pure white decorative. Fine sprays and production for Dec. to March 1. Tolerates 56°.			
<b>SNOWCAP</b>		<b>Dec. 15</b>	<b>S-5</b>
Large formal pompon. When grown at a 60° minimum night temperature, this is one of the outstanding flowers available to the Dec. to March 1 program.			
<b>WHITE RIVIERA</b>		<b>Dec. 15</b>	<b>S-2</b>
Intermediate ivory decorative. Does not show pink tinges with low temperature finish. Must have 60° initiation and cool finish.			

<b>GARZA</b>		<b>Dec. 15</b>	<b>S-5</b>
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Intermediate anemone.

<b>HEIRLOOM</b>		<b>Dec. 20</b>	<b>S-3</b>
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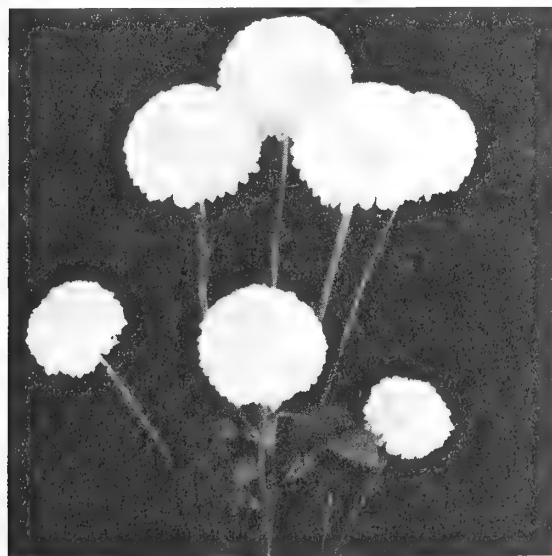
Intermediate decorative.

<b>WEDDING BELLS</b>		<b>Dec. 20</b>	<b>S-3</b>
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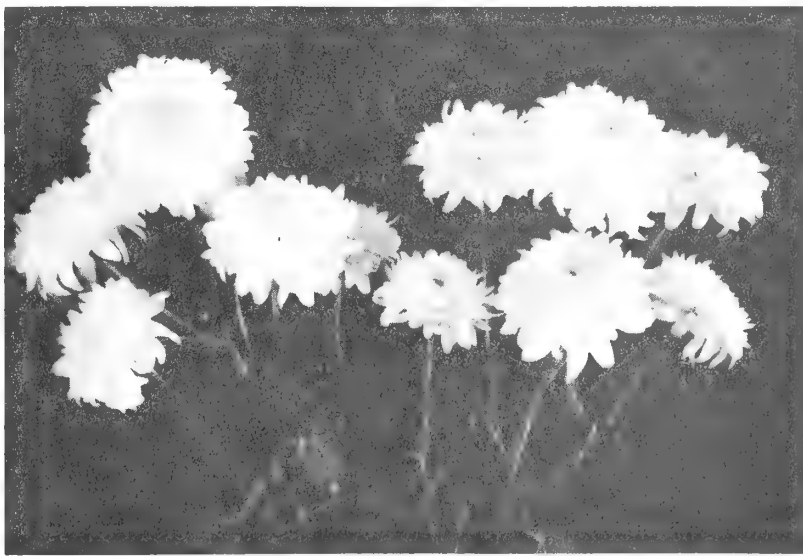
A small to medium white formal pompon. Uniform and productive.

<b>ELEGANCE</b>		<b>Dec. 20</b>	<b>S-1</b>
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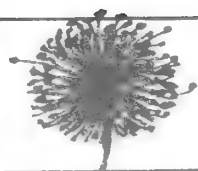
Intermediate white decorative. Produces larger flowers than Silversmith in addition to being more sharply responsive in 60° programs. Flowers naturally for Christmas. Clean growth with high production and good spray. Growth is stiff, whippy and without a trace of vegetativeness. Has been commercially grown and accepted for northern winter programs.



*Icecap*



*Elegance*



## WHITE POMPONS, DECORATIVES, SINGLE & ANEMONES

Variety	Description	Normal Flowering Date	Price
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### 15-WEEK VARIETIES (Pinch September 1)

<b>REVELATION</b>		<b>Dec. 25</b>	<b>S-6</b>
Intermediate decorative. Excellent for late natural flowering with 50° finish.			
<b>SNOW</b>		<b>Dec. 25</b>	<b>S-6</b>
Intermediate pompon. Requires 60° for initiation.			
<b>TALMEDA</b>		<b>Dec. 25</b>	<b>S-5</b>
Intermediate white pompon. Good form and substance.			

Variety	Description	Normal Flowering Date	Price
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<b>ILLINI CASCADE</b>		<b>Jan. 5</b>	<b>S-5</b>
Large clear white decorative. Tall, responsive. Finishes well at high 60° or low 50° temperature. A valuable addition to the northern winter program. Suggested as winter disbud.			
<b>ILLINI SNOWBOUND</b>		<b>Jan. 5</b>	<b>S-4</b>
Large informal white decorative with cream center. Requires 60° initiation and 50° development.			

## YELLOW POMPONS, DECORATIVES, SINGLES & ANEMONES

### 7-WEEK GARDEN VARIETIES (Pinch July 7)

<b>YEL. CHRIS COLUMBUS</b>		<b>Oct. 1</b>	<b>S-6</b>
Intermediate lemon yellow decorative. Short, compact, and prolific. Top yellow garden variety for spring pot blooming. Also tops for 3" pot plant.			
<b>MOONLIGHT</b>		<b>Oct. 1</b>	<b>S-2</b>
Intermediate sulfur yellow pompon. Short compact growth habit. For border and spring pot plants.			
<b>POLARIS</b>		<b>Oct. 5</b>	<b>S-2</b>
Golden buff daisy. Background garden variety and Oct. cut flower.			
<b>ASTORIA</b>		<b>Oct. 5</b>	<b>S-3</b>
Intermediate bright lemon yellow pompon. Free flowering and responsive. More prolific than either Yel. Chris Columbus or Moonlight when grown as a spring plant. An early foreground garden variety.			
<b>CHAS. NYE</b>		<b>Oct. 5</b>	<b>S-3</b>
Large deep yellow pompon. Showy, prolific garden variety.			

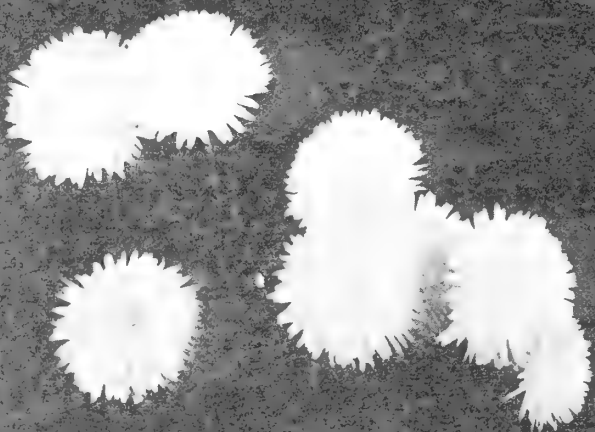
<b>CHIQUITA</b>		<b>Oct. 5</b>	<b>S-3</b>
Small deep lemon yellow button pompon. Good spring pot plant. An intermediate garden variety.			
<b>YELLOW SPOON</b>		<b>Oct. 5</b>	<b>S-3</b>
Intermediate light yellow spoon single. For garden and pot culture. Showy and artistic.			
<b>LEE POWELL</b>		<b>Oct. 10</b>	<b>S-2</b>
Large golden yellow decorative. Vigorous background and cut flower variety.			
<b>GOLDRUSH</b>		<b>Oct. 10</b>	<b>S-2</b>
Dark yellow daisy. Cut flower variety.			
<b>TREASURE</b>		<b>Oct. 10</b>	<b>S-3</b>
Small deep yellow pompon. Vigorous, upright habit. Fine cut flower growth. Outdoor cut flower and natural greenhouse programs.			
<b>BRIGHT FORECAST</b>		<b>Oct. 10</b>	<b>S-4</b>
Very formal yellow pompon. Outstanding flower quality. Background for gardens and outdoor cut flower.			

### 8-WEEK VARIETIES (Pinch July 14)

<b>TOPFLIGHT</b>		<b>Oct. 20</b>	<b>P</b>
Medium to small bright yellow anemone. Flowers are borne in abundant masses on both terminal and compound sprays, each floret displaying well-defined cushions without reflexing ray petals. Very productive growth performs advantageously in			

regular and fast spray programs from May thru October. Durability adapts it well to cloth house use. Tolerates 52° bud initiation temperatures and high summer temperatures for development. A needed supplement in the present shortage of 8-week yellow pompoms for cut flower use.

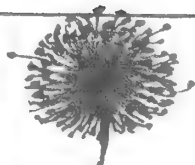
Sold under agreement only



Tiptop (see page 97)



Feathertop (see page 97)



## YELLOW POMPONS, DECORATIVES, SINGLES &amp; ANEMONES

Variety	Description	Normal Flowering Date	Price
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## 9-WEEK VARIETIES (Pinch July 21)

<b>GOLDFINCH</b>		<b>Oct. 25</b>	<b>S-2</b>
Small garden yellow button pompon with excellent flower quality. Greenhouse May 1-June 1; Sept. 1-Nov. 1, cloth house Aug. 1-Sept. 15.			
<b>STARLIGHT</b>		<b>Oct. 25</b>	<b>S-2</b>
Large yellow daisy. Intolerant of extreme heat. Greenhouse April 15-Nov. 1.			
<b>GOLDEN HERALD</b>		<b>Oct. 25</b>	<b>S-6</b>
Large decorative. Disspray or disbud April 15-Nov. 1; cloth house July 15-Sept. 15.			
<b>GOLD COAST</b>		<b>Oct. 25</b>	<b>S-8</b>
Intermediate formal pompon. Deep lemon. Greenhouse April 1-July 1; cloth house July 15-Oct. 1.			
<b>EARLY YELLOW DAISY</b>		<b>Oct. 25</b>	<b>S-2</b>
Intermediate yellow single. Selection from Calif. Yellow Daisy that will mature 7 to 10 days earlier. A west coast cloth house variety.			
<b>YELLOW DOT</b>		<b>Oct. 25</b>	<b>S-3</b>
Small pompon. Two-tone with golden bronze eye.			
<b>HAPPINESS</b>		<b>Oct. 28</b>	<b>S-3</b>
Large golden yellow single having broad, flat ray petals. Normally outproduces Sauterne and is noticeably more reliable in high temperature summer greenhouses than either Aztec or the Halos. In the greenhouses May 1-Nov. 1; cloth house July 15-Nov. 1. This variety is a combination of beauty, productivity and versatility.			
<b>SUNUP</b>		<b>Oct. 28</b>	<b>S-4</b>
Small deep yellow pompon. Withstands high temperatures and heavy cropping. Greenhouse May 1-Nov. 1; cloth house Aug. 1-Oct. 1.			
<b>YELLOW ARCADIA</b>		<b>Oct. 28</b>	<b>S-3</b>
Intermediate lemon pompon.			
<b>SAUTERNE</b>		<b>Oct. 30</b>	<b>S-5</b>
Intermediate intense yellow single. Greenhouse May 1-Nov. 1; cloth house Aug. 1-Oct. 1.			

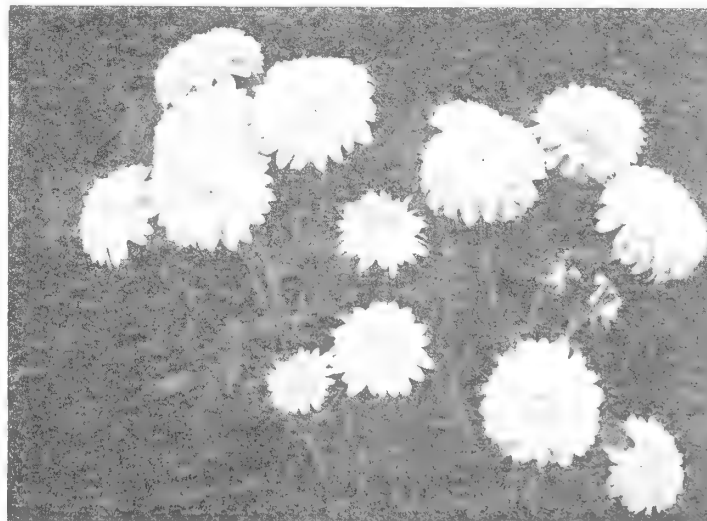
Variety	Description	Normal Flowering Date	Price
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<b>GONDOLA</b>		<b>Oct. 30</b>	<b>S-3</b>
Intermediate yellow daisy. Large flower similar to Starbright. Greenhouse May 1-Nov. 1.			
<b>YELLOW HALO</b>		<b>Nov. 1</b>	<b>S-4</b>
Sport of Halo. Intermediate single, deep lemon yellow. Greenhouse May 1-Nov. 1.			
<b>SCHN. YELLOW DAISY</b>		<b>Nov. 1</b>	<b>S-4</b>
Intermediate single.			
<b>DANDY</b>		<b>Nov. 1</b>	<b>S-3</b>
Intermediate yellow pompon. The most temperature tolerant among the 9-week yellow pompoms in the manual. Will initiate and develop at 56°. Develops better than Sunup at high temperatures. Production of Gold Coast. Greenhouse May 1-Nov. 1; cloth house July 1-Nov. 1. Adaptive to a wide range of environments.			
<b>STATESMAN</b>		<b>Nov. 1</b>	<b>S-3</b>
Small intense yellow pompon produced in abundance on well-formed sprays. Valuable summer greenhouse variety because of its unusual tolerance to high temperatures. Greenhouse May 1-Nov. 1; cloth house July 15-Nov. 1. A marked improvement over Sunup. Relatively more productive. A more formal flower that will not stick.			
<b>BRILLIANCY</b>		<b>Nov. 1</b>	<b>P</b>
An Aztec yellow intermediate single contrasted with accenting green discs. Recognized for rigid stems, a well balanced spray formation, superb flower placement and uniform response throughout its season of use. Grow as a natural spray in greenhouse from May thru mid November. A daisy of substance with distinctive class and productive capacity.			
<b>Sold under agreement only</b>			
<b>YELLOW DOTY</b>		<b>Nov. 1</b>	<b>S-2</b>
Large deep bronzy pompon. Disbud.			
<b>STARBRIGHT</b>		<b>Nov. 1</b>	<b>S-4</b>
Large deep lemon single. Dissprays greenhouse April 15-July 1 and Oct. 1-Nov. 15.			

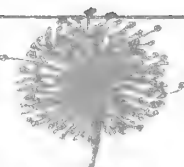
SEE PRICE LIST ON PAGE 132



Souvenir (see page 105)



Esquire (see page 105)



## YELLOW POMPONS, DECORATIVES, SINGLES & ANEMONES

Variety	Description	Normal Flowering Date	Price
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### 9-WEEK VARIETIES (Cont'd)

<b>YELLOW DAISY</b>	Intermediate lemon yellow single.	Nov. 1	S-3
<b>YELLOW SEA GULL</b>	Intermediate deep lemon pompon.	Nov. 1	S-2

### 10-WEEK VARIETIES (Pinch July 28)

<b>BARCAROLE</b>	Intermediate lemon pompon.	Nov. 5	S-4
<b>YELLOWTOP</b>	Bright lemon yellow sport of Whitetop. Same habit and vigor. Achieves maximum value in cloth house programs Aug. 1-Nov. 1. Greenhouse April 1-Nov. 15.	Nov. 5	S-3
<b>BRIGADOON</b>	Heavily petalled golden yellow daisy.	Nov. 5	S-2
<b>AZTEC</b>	Intermediate deep yellow daisy. Greenhouse May 1-July 1 and Sept. 15-Nov. 1.	Nov. 5	S-5
<b>MARY HALL</b>	Intermediate deep lemon pompon. Tolerates high temperatures well. Greenhouse May 1-Nov. 15; cloth house July 15-Oct. 1.	Nov. 5	S-6
<b>CRESCENDO</b>	Large yellow pompon. Outstanding variety for high temperature periods. Tall. Greenhouse June 1-Oct. 1; cloth house Aug. 1-Oct. 1. Tinges bronze at low temperature finishes.	Nov. 5	S-6
<b>CONSTELLATION</b>	Intermediate decorative. Brilliant yellow.	Nov. 5	S-4
<b>NUGGETS</b>	Small pompon. Productive button.	Nov. 5	S-2
<b>YELLOW BEAUREGARD</b>	Intermediate pompon. Clear golden yellow at all temperatures. Temperature tolerance of parent variety. Greenhouse May 1-Nov. 15; cloth house July 15-Nov. 1.	Nov. 5	S-6

Variety	Description	Normal Flowering Date	Price
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<b>SUNRAY</b>	Small anemone. Productive and responsive.	Nov. 1	S-5
<b>HONEYMOON</b>	Large yellow daisy. Good form and an unusually clear yellow color. Greenhouse May 1-Nov. 15; cloth house July 15-Oct. 1.	Nov. 4	S-3

<b>YELLOW ICEBERG</b>	Clear lemon yellow sport from Iceberg. Closely identical to parent variety. Especially valuable for high temperature periods. Spray programs May through mid November are always benefited by early center bud removal. Fast disbuds the year around.	Nov. 5	S-5
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<b>LUMINARY</b>	Intermediate yellow disbud. Decorative form. A Bonnaffon seedling that performs at its best in pots during the warm periods of the year from mid June thru October. MEDIUM TREATMENT. Extremely vegetative and non-responsive during winter and early spring in the North. Same spreading habit as parent. When Bonnaffon DeLuxe stalls in the summer, switch to Luminary.	Nov. 5	P
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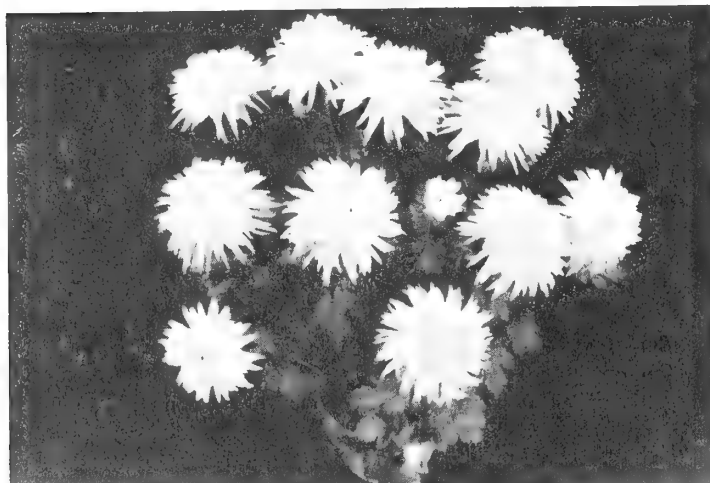
**Sold under agreement only**

<b>SUNFIRE</b>	Medium to large single. Dark yellow. Wide horizontally flat petals are well extended and become partially tubed at their base. Retains its complementary green-eyed disc for long periods which thus contributes to its zestful appearance. Flowers are borne on clean, well-balanced terminal sprays coupled with rigid stemmed growth. A top performer in either fast or regular spray programs from May thru mid November. The combination of Sunfire's improved traits enables it to compete favorably with the present varieties of Happiness, Sauterne, and Aztec.	Nov. 5	P
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**Sold under agreement only**

<b>LUXURY</b>	Large decorative. Clear yellow when restricted to high temperature flowering. Superb fast disbud May 1-Nov. 1. Disbudded spray program May 1-Nov. 1; cloth house Aug. 1-Oct. 1.	Nov. 8	S-5
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SEE PRICE LIST ON PAGE 132

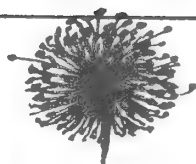


*Luminary*



*Sunfire*





## YELLOW POMPONS, DECORATIVES, SINGLES & ANEMONES

Variety	Description	Normal Flowering Date	Price
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### 10-WEEK VARIETIES (Cont'd)

**YELLOW SHASTA** Nov. 10 S-8

Large light lemon yellow anemone. Greenhouse April 1-Jan. 1; cloth house Aug. 1-Oct. 1.

**CREAM SHASTA** Nov. 10 S-4

Beautiful color addition to the shasta group.

**JEALOUSY** Nov. 10 S-6

Small pompon. Intense yellow, bright green eye. Hard, ball type. Durable, prolific and dependable. Greenhouse March 15-Nov. 15; cloth house Aug 1-Oct. 1.

**YELLOW IGLOO** Nov. 10 S-6

Intermediate deep lemon yellow pompon. Selection from Illini Igloo with same habit and temperature tolerance. Greenhouse April 1-Nov. 15; cloth house July 15-Nov. 1.

**HEYDAY** Nov. 10 S-3

Intermediate bright yellow pompon. Will initiate and develop its buds well at 56°. Improves the flower size and productivity of Yellow Beauregard. Characterized by open terminal sprays at any time of the year when it can be grown. Greenhouse April 1-Nov. 15; cloth house August 1-Nov. 1.

### 11-WEEK VARIETIES (Pinch August 4)

**SOUVENIR** Nov. 15 S-1

Intermediate dark yellow daisy with an early 11-week response. Excellent supplement to Yellow Sculpture. Vigorous and productive. In regular programs it achieves best spray formation when treated as a 12-week variety. Greenhouse programs mid September through mid December and mid March through mid May.

**ESQUIRE** Nov. 15 S-1

Intermediate deep yellow decorative. Larger than Yellow Highbrow. Strong, trim, growth habit with sprays resembling Forty Niner. Tolerates 56° for bud initiation and development. Its point of contribution to the 11-week yellow pompoms lies in its dependability within a wide range of temperatures. Esquire performs well in the late cloth house and greenhouse programs mid September through mid December; again in mid March through mid May.

Variety	Description	Normal Flowering Date	Price
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**YELLOW PACESETTER** Nov. 10 S-3

Lemon yellow sport of Pacesetter. Greenhouse April 15-July 1 and Sept. 15-Nov. 15; cloth house Aug. 1-Nov. 1. Also recommended as pot plant from Sept. 1-June 1.

**YEL. ILL. SNOWDRIFT** Nov. 12 P

Small novelty decorative. Intense yellow sport of Illini Snowdrift. Similar to original. Petals are narrower, and more finely feathered. Slightly less vigorous during marginal light periods, but equally as good during its recommended period. Natural greenhouse spray program from mid April thru mid November. Natural spray, pinched pots for the same period using TALL TREATMENT.

**FANFARE** Nov. 14 P

Golden-yellow intermediate anemone for natural spray pompoms. A late 10-week responding variety that performs amazingly well during the same period that Crescendo is flowered. Spray programs from May thru mid November. Well adapted to cloth house conditions also. Because of extreme inherent vigor, one long day week can be dropped from the 10-week regular schedule. Finishing temperatures less than 60° induces bronze tinges. A fine asset to the list of suitable summer and high temperature flowering pompoms.

**Sold under agreement only**

**YELLOW TAFFETA** Nov. 15 P

Intermediate lemon-yellow sport from Taffeta. Depth of color varies slightly with light intensity. Maximum color is expressed in late fall and early spring flowering. A variety worthy of consideration as an addition to the rest of the Taffeta group when flowering in greenhouse spray programs from March thru May and from mid September thru November.

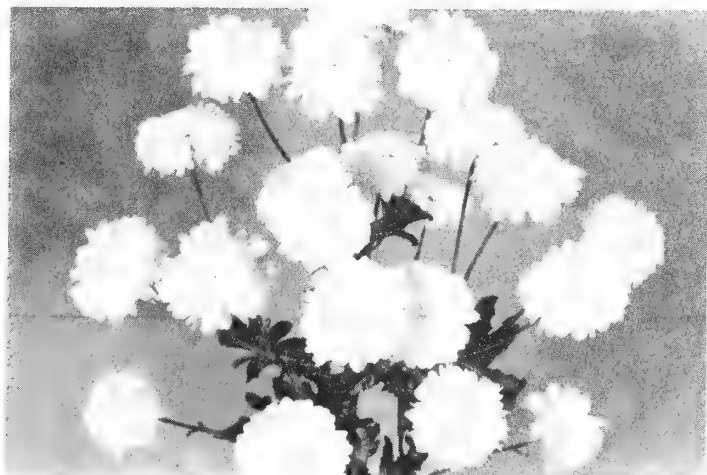
**YELLOW SCULPTURE** Nov. 15 S-4

Lemon yellow single. Greenhouse March 1-June 1 and Sept. 15-Dec. 1.

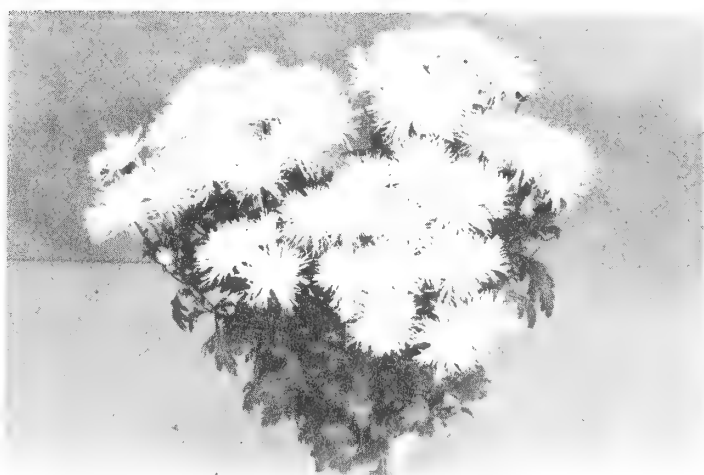
**PRINCETON** Nov. 15 S-3

Intermediate golden decorative.

SEE PRICE LIST ON PAGE 132

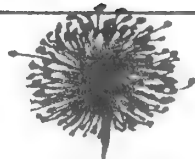


Fanfare



Yellow Ill. Snowdrift





## YELLOW POMPONS, DECORATIVES, SINGLES & ANEMONES

Variety	Description	Normal Flowering Date	Price
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**GOLDEN CHORD** Nov. 15 S-6  
Intermediate pompon. Intense golden yellow. Greenhouse Sept. 15-Dec. 15. Requires 60° for initiation.

**FORTY-NINER** Nov. 15 S-8  
Intermediate brilliant golden yellow pompon. Requires 60° for initiation and high light intensity for maximum production. Greenhouse Sept. 15-Dec. 15.

**GOLD BALL** Nov. 15 S-5  
Intermediate golden yellow pompon. Temperature tolerance improves Golden Chord and Forty Niner. Hard, durable. Size of Corsair. Greenhouse March 1-June 1 and Sept. 15-Dec. 15. Valuable supplement to Forty Niner.

**ILLINI GOLDSLOCKS** Nov. 15 S-5  
Intermediate golden yellow decorative. Tall and vigorous. Requires high light intensity for maximum production. Greenhouse Sept. 15-Nov. 15. Requires 60° or less to develop its buds.

**SUSANNE MILLER** Nov. 15 S-3  
Large anemone. Deep yellow cushion. Disbud Nov. 1-April 1.

**ILLINI BONBON** Nov. 18 P  
Very small dark yellow anemone. Short growth habit. Dainty individual flowers develop perfect well-rounded cushions and are borne in massive clusters on short natural sprays. Exclusively for pots from March thru June and October thru December. MEDIUM or TALL TREATMENT. High temperatures stall flower development. Will merit attention for its massive display of dainty and individually perfect anemone flowers.

**YELLOW L. I. BEAUTY** Nov. 20 S-4  
Large lemon anemone. Best grown as a fast disbud Nov. 1-April 1.

**YELLOW Highbrow** Nov. 20 S-5  
Sport of Highbrow. Intermediate golden yellow pompon identical in habit with Highbrow. Requires 60° for initiation. Greenhouse Sept. 15-Jan. 1.

Variety	Description	Normal Flowering Date	Price
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**LOLLIPOP** Nov. 20 S-7  
Lemon yellow pompon. Very formal, round and hard. Has a long season of usefulness. Fast response, and good production. Greenhouse March 15-May 1 and Sept. 15-Jan. 1.

**PIPPIN** Nov. 20 S-5  
Intermediate yellow pompon. Produces heavily on compound sprays. Greenhouse March 1-May 1 and Sept. 15-Dec. 15.

**KLONDIKE** Nov. 20 S-5  
An orange yellow pompon. Greenhouse Sept. 15-Dec. 1. Give one additional long day week to add height.

**BOJANGLES** Nov. 20 S-2  
Yellow daisy. Intense, heavy petallage.

**YELLOW NEVADA** Nov. 20 S-3  
Intermediate light lemon anemone.

**ILLINI SUNSPOT** Nov. 20 S-4  
Large yellow pompon. Responds well to disbudding. Greenhouse Sept. 15-Dec. 1.

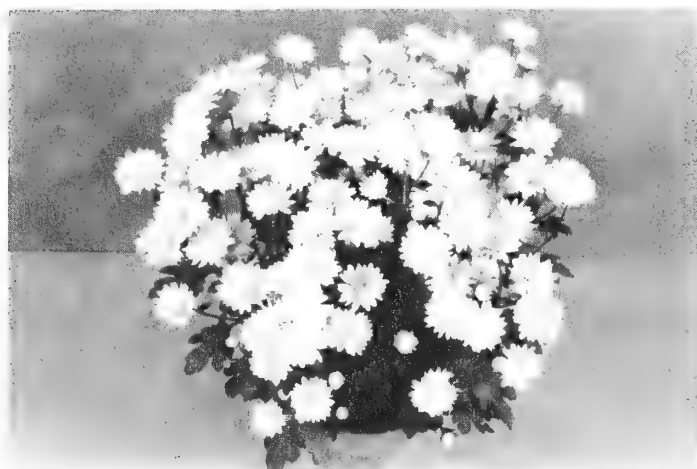
**ETUDE** Nov. 20 P  
Large semi-formal pompon. A rich yellow. Represents continued improvement in productive vigor and late winter and early spring response dependability. Performs well on either the regular or fast spray schedules from March thru May and mid September thru December. Spray is benefited when center bud is removed. Rightfully described as the "Corsair" of the 11-week yellows. Durable for cloth house use.

**Sold under agreement only**

**SULTAN** Nov. 22 S-3  
Large formal decorative. Golden yellow to amber at low temperatures. Vigorous and productive. Temperature tolerance of Forty Niner. Greenhouse March 1-June 1 and Sept. 15-Dec. 1.

**YELLOW PARAMOUNT** Nov. 23 S-5  
Deep yellow sport of Paramount. Greenhouse March and April also Sept. 15-Dec. 15.

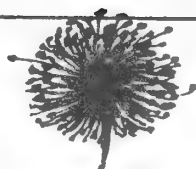
SEE PRICE LIST ON PAGE 132



*Illini Bonbon*



*Etude*



## YELLOW POMPONS, DECORATIVES, SINGLES &amp; ANEMONES

Variety	Description	Normal Flowering Date	Price
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## 12-WEEK VARIETIES (Pinch August 11)

<b>GOLDENROD</b>		<b>Nov. 25</b>	<b>S-4</b>
Full round and solid light yellow pompon.			
<b>ILLINI GOLD</b>		<b>Nov. 25</b>	<b>S-2</b>
Small golden yellow pompon.			
<b>GOLDSMITH</b>		<b>Nov. 25</b>	<b>S-5</b>
Large golden yellow decorative. Disspray Oct. 15-Dec. 1. Requires 60° for initiation.			
<b>HIGHLANDER</b>		<b>Nov. 25</b>	<b>S-5</b>
Intermediate intense yellow decorative. Sprays Oct. 15-Jan. 1.			
<b>SUNNYSIDE</b>		<b>Nov. 25</b>	<b>S-6</b>
Intermediate deep lemon pompon. Fine Thanksgiving variety.			
<b>ILLINI WAMPUM</b>		<b>Nov. 25</b>	<b>S-3</b>
Beautiful, bright yellow anemone with greenish yellow cushion. A good addition to the late winter and early spring program, March 1-May 1, and Sept. 15-Jan. 1.			

Variety	Description	Normal Flowering Date	Price
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<b>YELLOW VALENCIA</b>		<b>Nov. 28</b>	<b>S-4</b>
A sport formerly known as Golden Jane. Best vigor and form of Valencia family. Disbud and disspray. Nov. 15-Jan. 1.			
<b>YELLOW CORDOVA</b>		<b>Nov. 30</b>	<b>S-2</b>
Intermediate deep lemon pompon.			
<b>YELLOW FORTUNE</b>		<b>Dec. 1</b>	<b>S-4</b>
Deep yellow sport of Fortune. Sprays Nov. and Dec.			
<b>OMEGA</b>		<b>Dec. 1</b>	<b>S-6</b>
Intermediate deep lemon pompon. Very productive. Greenhouse Oct. 1-April 15.			
<b>YELLOW GALAXY</b>		<b>Dec. 1</b>	<b>S-5</b>
Sport of Galaxy. Deep lemon yellow. Fine for fall, winter and early spring programs. Oct. 1-May 1.			

## 13-WEEK VARIETIES (Pinch August 18)

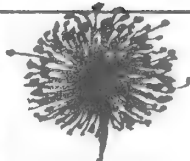
<b>JACKPOT</b>		<b>Dec. 5</b>	<b>S-3</b>
Large golden yellow decorative. Dissprays. Must have 60° initiation temperatures.			
<b>YELLOW ACCLAIM</b>		<b>Dec. 5</b>	<b>S-5</b>
Yellow sport from Acclaim. Sprays Nov. 15-March 15.			
<b>GOLDEN ACCLAIM</b>		<b>Dec. 5</b>	<b>S-5</b>
Intermediate golden yellow pompon. Selection from Acclaim. Intensification of Yellow Acclaim. Spray Nov. 15-March 15.			
<b>YELLOW CAMEO</b>		<b>Dec. 5</b>	<b>S-2</b>
Intermediate lemon decorative. Vigorous and productive in natural season.			
<b>YELLOW ENCHANTRESS</b>		<b>Dec. 5</b>	<b>S-4</b>
Large disbud and disspray anemone. Full expression of yellow requires high light and high temperature environments. Cooler finishes yield a pleasing bright golden buff coloration. Growth habit is very similar to original parent. Grown in regular and fast disbud programs December through mid March.			

<b>CORONATION</b>		<b>Dec. 5</b>	<b>S-1</b>
Intermediate to large decorative. Intense golden yellow. Larger, more beautifully formed than Corsair, also responding more uniformly and rapidly. The sprays are open and bunch well. Coronation will initiate and develop at 56°. Provides fine 3"-4" disbuds in winter fast programs. Best sprays are obtained when Coronation is treated as a 14-week variety. Coronation materially strengthens winter programs when flowered December through mid March.			
<b>CINDERELLA</b>		<b>Dec. 5</b>	<b>S-3</b>
Intermediate deep golden yellow single. Spray crops. Nov. 15-March 15.			
<b>DARK YELLOW SATELLITE</b>		<b>Dec. 10</b>	<b>S-5</b>
Dark yellow sport from Yellow Satellite. A crisp, formal pompon of fine response in 60° December through February programs. Color is a decided improvement over the original.			
<b>IMP. YELLOW SUPREME</b>		<b>Dec. 10</b>	<b>S-3</b>
Large anemone. Disbud. Tall.			

SEE PRICE LIST ON PAGE 132



Coronation



## YELLOW POMPONS, DECORATIVES, SINGLE & ANEMONES

Variety	Description	Normal Flowering Date	Price
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<b>CORSAIR</b>		<b>Dec. 12</b>	<b>S-8</b>
Large yellow pompon. A "best" for winter spray programs, Nov. 15-March 15. Requires 60° minimum for initiation.			

### 14-WEEK VARIETIES (Pinch August 25)

<b>YELLOW RIVIERA</b>		<b>Dec. 15</b>	<b>S-2</b>
Intermediate decorative. Initiate at 60°. Finish cool. Sprays Dec. 1-March 1.			

<b>YELLOW GARZA</b>		<b>Dec. 15</b>	<b>S-4</b>
Intermediate anemone. Lemon.			

<b>SHAMROCK</b>		<b>Dec. 15</b>	<b>S-5</b>
Large yellow decorative. Disspray programs, Dec. 1-March 1.			

<b>DECEMBER GOLD</b>		<b>Dec. 15</b>	<b>S-3</b>
Large deep golden yellow pompon.			

<b>ILLINI BRIGHTYES</b>		<b>Dec. 15</b>	<b>S-1</b>
Intermediate anemone. Lemon yellow ray; dark yellow cushion. Open sprays, normally terminal. Petioles are stiff, stems wiry and strong. Requires 60° for uniform initiation. Tolerates 60° or less for development. Brighteyes has never shown a trace of vegetativeness and constitutes a winter Illini Wampum. Production is average. Quality high. Recommended December through February.			

### 15-WEEK VARIETIES (Pinch September 1)

<b>SIREN</b>		<b>Dec. 25</b>	<b>S-5</b>
A deep yellow decorative. Smaller than Vibrant but very similar to it and flowers later.			

<b>YULEFLAME</b>		<b>Dec. 25</b>	<b>S-5</b>
Large decorative. Deep lemon.			

<b>YELLOW SNOW</b>		<b>Dec. 25</b>	<b>S-5</b>
Intermediate pompon.			

Variety	Description	Normal Flowering Date	Price
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<b>YELLOW SNOWCREST</b>		<b>Dec. 13</b>	<b>S-4</b>
A clear yellow sport. Bright green eye. Sprays Dec. 1-March 15.			

<b>GOLDEN ELEGANCE</b>		<b>Dec. 20</b>	<b>S-1</b>
Intermediate lemon yellow decorative. A sport from Elegance and identical to it in all respects except color. Very responsive and tolerant to 60° initiation and development. Can be recommended in December through February programs. Of medium height and vigor. The Elegance series greatly strengthens northern winter programs. They mature naturally for Christmas.			

<b>SUN VALLEY</b>		<b>Dec. 20</b>	<b>S-1</b>
Intermediate to large pompon. Intense golden yellow, enhanced by a striking green eye. Strong grower with heavy production. Requires 60° for initiation and tolerates winter 60° programs well. A week later than Corsair, shorter, heavier and much more beautiful. Benefited by center bud removal. Constitutes a very significant advance in 14-week pompoms. It should rapidly become an important 60° yellow pompon in the North for December through February programs.			

<b>VIBRANT</b>		<b>Dec. 20</b>	<b>S-5</b>
Intermediate deep lemon decorative. Disspray Dec.			

<b>SUNRISE</b>		<b>Dec. 20</b>	<b>S-4</b>
A yellow pompon best described as a late Gold Coast. Sunrise is not sensitive to low night temperatures.			

<b>GOLDEN ANNIVERSARY</b>		<b>Dec. 24</b>	<b>S-4</b>
Small intense yellow pompon.			

<b>GOLDEN SNOWBOUND</b>		<b>Jan. 5</b>	<b>S-3</b>
Intermediate golden yellow decorative. Color intensification of Illini Yellow Snowbound. Natural flowering. 60° initiation. 50° development.			

<b>ILLINI YEL. SNOWBOUND</b>		<b>Jan. 5</b>	<b>S-3</b>
Yellow sport of Snowbound. Requires 60° for initiation and 50° for development.			



*Illini Brighteyes*



*Sun Valley*



## BRONZE & RED POMPONS, DECORATIVES, SINGLES & ANEMONES

Variety	Description	Normal Flowering Date	Price
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Variety	Description	Normal Flowering Date	Price
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### 7-WEEK GARDEN VARIETIES (Pinch July 7)

**W. P. SNYDER** Oct. 1 S-3  
Intermediate decorative. Apricot bronze. Good garden and pot plant culture. Requires 60° minimum temperatures.

**REMEMBRANCE** Oct. 5 S-5  
Intermediate decorative. Apricot bronze. For garden and pot plant culture. Best with 60° minimum temperatures.

**AGLOW** Oct. 5 S-2  
Orange-bronze pompon. Small flower. Low compact growth. Spring pot plants. Showy fall garden variety for a foreground border.

**LIPSTICK** Oct. 5 S-1  
Small burgundy red cushion pompon. Dwarf spreading habit coupled with free breaking action add up to a reliable May and June pot plant as well as in October. SHORT TREATMENT recommended. Very shapely and colorful if finished at 60° or less. A fine prolific garden variety.

**MONA** Oct. 5 S-3  
Very hard, intermediate rust bronze pompon. A variety for border and pot culture.

**HUNTSMAN** Oct. 5 S-2  
Red bronze decorative. Outdoor cut flower. Showy, dependable. Background garden variety.

**RED VELVET** Oct. 10 S-2  
Intermediate crimson red decorative.

**CARMINE QUEEN** Oct. 10 S-2  
Carmine red pompon. Outdoor cut flower.

### 8-WEEK VARIETIES (Pinch July 14)

**RADIANCE** Oct. 15 S-3  
Intermediate red decorative. Breaks freely. Responds uniformly. Non-fading color. Color brighter, habit more prolific than Red Velvet. Valuable garden variety. Spring pot plant.

**CALUMET** Oct. 15 S-3  
An apricot bronze pompon of superior flower quality for cut flower purposes. Very fine for the spring crop in the greenhouse, the earliest cloth house crop. Excellent growth as natural cut flower. Background plantings for gardens.

**DOLLI-ETTE** Oct. 10 S-2  
Intermediate golden bronze spoon. An interesting and colorful novelty. A shapely, spring pot plant. Prolific and durable as a foreground garden variety. New forms such as this will stimulate interest and appeal for the early garden varieties.

**TORONTO** Oct. 10 S-2  
Intermediate orange bronze decorative. Excitingly beautiful in the garden. Sturdy stems, prolific bloomer, and a spreading cushion type growth. Attractive spring pots. Establishes new standards in the 7-week group. A "must-have" for every home garden.

**CARNIVAL** Oct. 10 S-3  
Large pompon. Glowing orange red. Strong. Background garden variety.

**MOROCCO** Oct. 12 S-2  
Intermediate reddish bronze decorative. Free breaker, with a rigid, spreading growth habit. Excellent spring pot plant. Superb fall garden variety. Contributes needed durability to the garden variety group.

**CORALHUE** Oct. 12 S-2  
Small apricot coral pompon. Low, spreading growth habit. Free breaker. Spring pot plant. Effective as a foreground garden variety. More double and more prolific than Joy-bringer.

**MRS. DuPONT** Oct. 12 S-2  
Large buff apricot decorative. Spring pot plant.

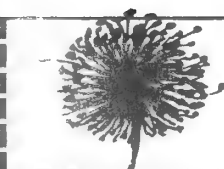
**RAJAH** Oct. 15 S-2  
Large scarlet red daisy. Natural cut flower outdoors and greenhouse. Background garden variety.

**JAMES STEWART** Oct. 15 S-3  
Apricot gold pompon. Responds with Norona in the early shadings. July cloth house. Natural cut flower for greenhouse and outdoor plantings.

SEE PRICE LIST ON PAGE 132



*Dorothy Hyde (See page 110)*



## BRONZE & RED POMPONS, DECORATIVES, SINGLES & ANEMONES

Variety	Description	Normal Flowering Date	Price
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### 8-WEEK VARIETIES (Cont'd)

<b>TALISMAN</b>		<b>Oct. 20</b>	<b>S-2</b>
Talisman bronze; intermediate daisy. Recommended in the greenhouse, April 15-Aug. 1. Cloth house, July 15-Oct. 15. Natural cut flower.			

<b>PARADISE</b>		<b>Oct. 20</b>	<b>S-2</b>
Intermediate coral red single. Recommended for greenhouse April 15-Aug. 1. Cloth house July 15-Oct. 15.			

<b>BAYONNE</b>		<b>Oct. 20</b>	<b>P</b>
Intermediate incurved disbud. Warm orange-bronze color with coral overtones. Recommended exclusively for pots, SHORT TREATMENT, from early April thru October. Short and spreading habit with prolific breaking action. Attractive foliage. Quality, appeal, and dependable performance results in one of the best early bronzes for pots bred to date.			

### 9-WEEK VARIETIES

<b>RED ETHRElda</b>		<b>Oct. 25</b>	<b>S-3</b>
Intermediate coral red anemone. Dwarf, compact and responsive. Spreads well. Best color retention with low temperature finish. Pot plants, Oct. 1-June 1.			

<b>GAiETY</b>		<b>Oct. 25</b>	<b>S-5</b>
Large coral bronze single. Sprays, April 15-June 15; Sept. 15-Oct. 15.			

<b>FIREBIRD</b>		<b>Oct. 25</b>	<b>S-3</b>
Intermediate red bronze decorative.			

<b>BRONZE DOT</b>		<b>Oct. 25</b>	<b>S-5</b>
Small pompon. (Red Dot) Good two-tone. Cloth house July 15-Oct. 25.			

<b>SALLY</b>		<b>Oct. 25</b>	<b>S-2</b>
Small pompon. An intensified bronze and increased size selection from Bronze Dot. Cloth house, July 15-Oct. 25.			

<b>BUCKSKIN</b>		<b>Oct. 25</b>	<b>S-5</b>
A tawny bronze daisy. Very productive. Greenhouse, April 15-Nov. 1; Cloth house, July 15-Oct. 25.			

Variety	Description	Normal Flowering Date	Price
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<b>LEE-ETTE</b>		<b>Oct. 23</b>	<b>S-2</b>
Small silver bronze double spider. Only reverse color displayed on completely tubular petals. A bizarre novelty for spring. Equally as attractive as an intermediate fall garden variety.			

<b>RESOLUTE</b>		<b>Oct. 24</b>	<b>P</b>
A large reddish-bronze semi-incurved pompon. Strong, rigid growth habit. Versatile for pots MEDIUM TREATMENT, fast disbuds, and regular spray programs from April thru October. Resolute along with Bayonne, qualify for top billing for Mother's Day and early spring flowering pots. Should make a durable outdoor natural cut flower variety in the southern states.			

<b>ANDANTE</b>		<b>Oct. 25</b>	<b>P</b>
Intermediate decorative disbud. Apricot-bronze. Habit well adapted to pots from mid April thru October. MEDIUM TREATMENT. A valuable improvement over Mrs. DuPont as a spring pot. Its superb color remains serenely smooth under both cool and warm finishing temperatures.			

<b>DOROTHY HYDE</b>		<b>Oct. 25</b>	<b>P</b>
Intermediate semi-incurved disbud. Bright orange-bronze. Greater tolerance to low light and temperature conditions allows it to be flowered several months earlier than Fred Yule in the spring. Buds will initiate and develop at 56° or above. Its dependable and vigorous habit makes for a fine fast disbud from March thru October. Most attractive form and color is retained if cut slightly green. High summer temperatures tend to reduce size.			

<b>STUART OGG</b>		<b>Oct. 25</b>	<b>P</b>
Intermediate decorative disbud. A luminous apricot pastel rarely found in the chrysanthemum color range. Becomes radiantly alive under the spectrum of incandescent lights. An English development that grows and develops into superb fast disbuds from April thru June and again from September thru mid November. High summer finishing temperatures affect color loss and form distortion due to some reflexing of petals. Also, rapid rate of flower development necessitates cutting early while centers are still tight.			

SEE PRICE LIST ON PAGE 132

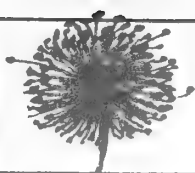


Bayonne



Resolute





## BRONZE & RED POMPONS, DECORATIVES, SINGLES & ANEMONES

Variety	Description	Normal Flowering Date	Price
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### 9-WEEK VARIETIES (Cont'd)

**SYBIL** Oct. 30 S-4  
Intermediate golden apricot daisy. Productive and durable. Has petallage and substance. Versatile and brilliant color. Spray programs May 1-Oct. 30. Tolerates 56°.

**BRONZECHIP** Nov. 1 S-3  
Intermediate decorative. Lively orange-bronze sport of Bluechip. Valuable cloth house variety, July 15-Nov. 1. Recommended for the greenhouse, May 1-July 1, and Sept. 1-Nov. 15. Has retained the color retention property that is so unique with Bluechip.

**SENECA** Nov. 1 S-2  
Intermediate copper orange decorative.

**GINGER** Nov. 1 S-2  
Intermediate reddish bronze anemone. Free breaking habit. Will initiate and develop its buds at 56°. Produces a symmetrical pot plant, Oct. 1-June 1. A livelier color than Gypsy. Has a more extended flowering period than Barbara Fuller.

**FIREFLY** Nov. 1 S-3  
An orange red pompon that holds its color exceptionally well.

### 10-WEEK VARIETIES (Pinch July 28)

**JETFIRE** Nov. 5 S-7  
Intermediate flaming red decorative. A color that holds even in high temperatures. Outstanding in the cloth house, Aug. 1-Nov. 1. Greenhouse, April 15-Nov. 15. Best on sterilized soils. Susceptible to verticillium wilt.

**NECTARINE** Nov. 5 S-3  
Intermediate apricot orange pastel decorative. Has no color competition during its season. Vigor of Copperhead. More beautiful form. Ideal either as a spray or fast disbud, April 1-June 15, and Sept. 15-Nov. 15, when able to finish at 60° or less. Cloth house, Sept. 15-Nov. 1. When grown as a spray, benefits from removal of center bud.

**ORANGE BEAUREGARD** Nov. 5 S-6  
Lively, light orange or golden bronze sport from Beauregard. Yellow during summer high temperatures.

Variety	Description	Normal Flowering Date	Price
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**BRONZE DAISY** Nov. 1 S-3  
Intermediate light bronze single.

**IMP. BR. DAISY** Nov. 1 S-2  
Intermediate copper red bronze single.

**BUCCANEER** Nov. 1 S-5  
Rich orange bronze daisy. Excellent habit. Dependable fall variety. Sept. 15-Nov. 15.

**RED SENECA** Nov. 1 S-3  
Intermediate rust red decorative.

**BR. BUCKINGHAM** Nov. 1 S-2  
Intermediate rust orange single.

**BARBARA FULLER** Nov. 1 S-4  
A dark coral red anemone. Dwarf compact growth habit. Pot disbuds Sept. 1-Dec. 1. Improves Gypsy in all respects.

**NAVAHO** Nov. 1 S-3  
Intermediate brick red pompon.

**RED DAISY** Nov. 1 S-4  
Intermediate single.

**IMP. RED DAISY** Nov. 1 S-3  
Intermediate single. Petallage color and spray surpass Red Daisy.

**BEAUREGARD** Nov. 5 S-8  
A reddish orange pompon. A very versatile variety that produces good flowers every month of the year. Cloth house, July 15-Nov. 1. Greenhouse, April 1-Nov. 15.

**DARK BEAUREGARD** Nov. 5 S-3  
Intermediate pompon. A luminous mahogany bronze sport of Beauregard. Same growth habit. Slightly smaller flower. Better high color retention. Greenhouse, April 1-Nov. 15. Cloth house, July 15-Nov. 1.

**BUTTERSCOTCH** Nov. 5 S-3  
Intermediate formal pompon. Golden orange. Good high temperature responses.

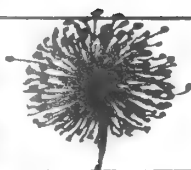
**RED RUST** Nov. 5 S-3  
Intermediate decorative. Rust Bronze.

**RUBICON** Nov. 5 S-6  
Intermediate red bronze decorative. Greenhouse, May 1-July 1, and Sept. 15-Nov. 15. Cloth house, Sept. 15-Nov. 1.

SEE PRICE LIST ON PAGE 132



*Andante (See page 110)*



## BRONZE &amp; RED POMPONS, DECORATIVES, SINGLES &amp; ANEMONES

Variety	Description	Normal Flowering Date	Price	Variety	Description	Normal Flowering Date	Price
<b>10-WEEK VARIETIES (Cont'd)</b>							
<b>MAGICIAN</b>	Large reddish bronze pompon. Excellent form.	Nov. 5	S-3	<b>CHEVRON</b>	An intense bronze pompon. Holds color better than Red Rust or Seneca. Greenhouse, Sept. 15-Nov. 10. Tolerates 54°.	Nov. 10	S-3
<b>BITTERSWEET</b>	Intermediate red bronze single.	Nov. 5	S-4	<b>THE TITAN</b>	Large intense red anemone. Fast disbuds.	Nov. 10	S-3
<b>GYPSY</b>	Small rust bronze anemone. Pot disbud, Sept. 15-Jan. 1.	Nov. 8	S-3	<b>BRONZE PANDORA</b>	Bright coral bronze sport of Pandora. Outstanding vigor and color for fall. Fast disbuds. Greenhouse, Sept. 15-Nov. 10. Cloth house, Sept. 15-Nov. 1.	Nov. 10	S-3
<b>BRONZE PORTRAIT</b>	Intense, reddish-bronze pompon. A Samovar color addition to the ever-widening Portrait series. Similar growth habits and same degree of vigor as parent. Less tolerant to high finishing temperatures for color retention. Useful in greenhouse spray program from March thru mid June and again from late September thru mid November. Pots: late September thru February using MEDIUM TREATMENT and March thru May TALL TREATMENT.	Nov. 8	P	<b>CLIMAX</b>	Intermediate intense orange pompon. Excellent vigor and production. Vivid color stimulates demand for bronze. Greenhouse crops, April 1-Nov. 15. Cloth house, July 15-Nov. 1. Sets a new color standard. Tolerates 56°.	Nov. 10	S-6
<b>SAMOVAR</b>	Intermediate intense rust red pompon. Cloth house, Sept. 15-Nov. 1. Greenhouse, Sept. 15-Nov. 15.	Nov. 10	S-5	<b>COPPERHEAD</b>	A large coppery bronze decorative. Very satisfactory grown as disbudded sprays or disbudded to a single flower. Fast disbuds. Sprays, May and June, Sept. 15-Nov. 10.	Nov. 10	S-5
<b>INCA</b>	Intermediate anemone, amber-bronze turning to bright yellow at high temperatures. Breaks freely; spreads and produces well. Versatile pot plant variety throughout the year. Sprays, April 15-Nov. 15. Superior to Sunray for either pot plant or cut flower purposes.	Nov. 10	S-3	<b>RED HUMDINGER</b>	An exciting burgundy red sport from Humdinger.	Nov. 11	S-5
<b>DAYBREAK</b>	A bright and lustrous orange anemone disbud. Attains 4-5" diameters with a large and well-rounded cushion. A uniquely different and tasteful color for fast disbud programs from late March thru mid November. Color remains smooth under high temperature finishes although intensity may be reduced.	Nov. 10	P	<b>BRONZE MASTERPIECE</b>	Intermediate pompon. Disspray.	Nov. 12	S-4
<b>Sold under agreement only</b>							
<b>GILTGLOW</b>	Intermediate bi-colored single. An expressive reddish-bronze contrasted with a smart green disc. Gold reverse. Slow disc development and fine color retention add up to excellent keeping qualities either on the bench or when cut. Medium to short growth habit. Recommended for the regular spray program from mid April thru June and mid September thru November. Some foliar mottling can be induced if flowered when very high summer greenhouse temperatures prevail. This will introduce a striking new color version not presently in the commercial pompon trade.	Nov. 10	P	<b>DK. BR. MASTERPIECE</b>	Dark sport of Br. Masterpiece. Disspray. Brick red with cool finish.	Nov. 12	S-3
<b>Sold under agreement only</b>							
<b>SEE PRICE LIST ON PAGE 132</b>							
<b>PARAGON</b>							
A large rust red pompon. Sprays, Sept. 15-Nov. 12. Cloth house, Sept. 15-Nov. 1.							
<b>AMBERHUE</b>							
Intermediate orange bronze daisy. Improves Buccaneer in growth, form, production and color retention. Green eye. Durable. Spray programs, May 15-June 15, and Oct. 1-Nov. 14. Cloth house Sept. 15-Nov. 1. Stalled by high temperature finish.							



Daybreak



## BRONZE & RED POMPONS, DECORATIVES, SINGLES & ANEMONES

Variety	Description	Normal Flowering Date	Price
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### 11-WEEK VARIETIES

**BEAUREGARD SUPREME** Nov. 15 S-5

A sport selected from Beauregard. Color remains the same. Size of flower is nearly doubled. Response shifts to the 11-week group. Vigor is increased. Pedicels are longer and spray somewhat more open. Tolerates high temperature well. Extends the Beauregard season into the fall and early spring. Very good late cloth house variety.

**RANGER** Nov. 15 S-1

Intermediate true orange pompon. A smooth, brilliant new color. Always productive and reliable. Benefited by treatment as a 10-week variety. Tolerant of high temperature for bud development. An outstanding cloth house variety being terminal in its spray formation. Recommended in the greenhouse mid September through November and mid March through June. Cloth house September through October.

**BR. JUBILATION** Nov. 15 P

Large pompon. A rosewood-bronze sport of Jubilation. Equal in all respects, other than color, to its parent variety. A finishing temperature of 60° or less is required for maximum color retention. A real performer for October thru mid May greenhouse programs as well as late September and October cloth houses. The Jubilations efficiently contribute needed vigor for northern winter pompon programs. They will tolerate lower bud initiation temperatures of 56-60° with uniform response.

**MRS. DEWEY** Nov. 15 S-3

A heavy petalled deep orange bronze single.

**THELMA** Nov. 15 S-7

Very brilliant orange scarlet pompon. Sprays March 1-May 1; Sept. 15-Dec. 1.

### 12-WEEK VARIETIES (Pinch August 11)

**FOREVER AMBER** Nov. 25 P

Intermediate wide petalled decorative disbud. Retains a velvety smooth amber bronze color. A splendid choice for the fast disbud program from mid November thru April. A real standout in January and February for the northern environment. Comparatively described as an improved winter luxury.

**Sold under agreement only**

Variety	Description	Normal Flowering Date	Price
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### (Pinch August 4)

**RED PRINCETON** Nov. 15 S-2

Intermediate rust red decorative.

**ILLINI WARRIOR** Nov. 20 S-3

Intermediate rust bronze pompon.

**LEGAL TENDER** Nov. 20 S-4

Intermediate decorative.

**RUSTICON** Nov. 20 S-5

Intermediate rust red pompon. Greenhouse, Oct. 1-Dec. 1.

**ILLINI WAR PAINT** Nov. 22 S-4

Large smooth maroon red decorative. Heavy, vigorous growth. Restrict to low temperature finish. Versatile as fast disbud and disbudded spray, Oct. 1-Jan. 1.

**OLNURA** Nov. 22 S-4

Large apricot buff anemone. Valencia size disbud. Superb color and form. Sharp response. Tall, vigorous, and productive. Disbudded sprays and fast disbud programs, March 1-May 1, and Sept. 15-Jan. 1.

**FESTIVAL** Nov. 23 S-3

Intermediate single. Short growth habit. Excellent for Thanksgiving.

**BRONZE MINUET** Nov. 23 S-3

Intermediate pompon.

**RUBAIYAT** Nov. 23 S-6

Velvety red intermediate formal pompon. Unequaled for October through Christmas flowering. Slowed by high temperatures during bud development. Greenhouse, Sept. 15-Jan. 1.

**RED ROLINDA** Nov. 23 S-4

Intermediate brick red anemone. Disspray and disbud.

**ILLINI REDWOOD** Nov. 25 S-3

Intermediate red pompon. Hard, durable and well formed flower. Fine red pompon for Thanksgiving and Dec.

**BRONZE GOLDSMITH** Nov. 25 S-5

Large amber bronze decorative. Disspray. Fast disbuds, Nov. and Dec.

SEE PRICE LIST ON PAGE 132



Ranger



## BRONZE & RED POMPONS, DECORATIVES, SINGLE & ANEMONES

Variety	Description	Normal Flowering Date	Price
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### 12-WEEK VARIETIES Cont'd)

<b>FALCON</b>	Intermediate reddish bronze pompon.	Nov. 25	S-2
<b>YOLANDA</b>	Intermediate tawny bronze anemone.	Nov. 25	S-2
<b>INDIAN HEAD</b>	Intense red bronze single.	Nov. 28	S-3
<b>APRICOT VALENCIA</b>	Large apricot bronze single. Disbud and disspray.	Nov. 28	S-4
<b>CRIMSON VALENCIA</b>	Large maroon red single. Disbud and disspray.	Nov. 28	S-3
<b>GALAXY</b>	Intermediate bright orange single. Excellent form, color and response. Sprays, Oct. 1-May 1.	Dec. 1	S-6

Variety	Description	Normal Flowering Date	Price
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<b>ORANGE GALAXY</b>	A color sport from Galaxy. Golden orange. Spray programs, Oct. 1-May 1.	Dec. 1	S-2
<b>HOLIDAY</b>	Intermediate red single. Sprays, Nov. 15-April 15.	Dec. 1	S-4
<b>RED EMPRESS</b>	Large disbud anemone. A mauve-red sport of Empress. An essentially fine and appealing fast disbud from November thru April.	Dec. 1	P
<b>CRACKERJACK</b>	Intermediate daisy. The color is described as being a brilliant reddish bronze. Crackerjack is the answer to a red Galaxy. Vigorous and productive, performing well in fast and regular spray programs. Shaded for Thanksgiving, lighted for Christmas or Valentines Day, Crackerjack provides an item of irresistible consumer appeal. Recommended period mid October through April.	Dec. 1	S-1

### 13-WEEK VARIETIES (Pinch August 18)

<b>RED ENCHANTRESS</b>	Large disbud and disspray anemone. Clear maroon red. Habit, vigor and response are the same as Enchantress. Attractive fast disbud for Christmas. All Enchantress varieties are improved by 60° initiation and less than 60° development. Recommended for regular and fast disbud programs December through mid March.	Dec. 5	S-4
<b>BRONZE ENCHANTRESS</b>	Apricot bronze sport. Disbud and disspray.	Dec. 5	S-2
<b>DEBONAIR</b>	Large red pompon. Fine form.	Dec. 5	S-4
<b>IMP. BRONZE SUPREME</b>	Large buff bronze anemone. Disbud. Short.	Dec. 10	S-2
<b>HARLEQUIN</b>	Crimson red intermediate decorative.	Dec. 10	S-3

<b>CHRISTMAS STAR</b>	Intermediate red single. Productive and responsive. Sprays, Nov. 15-March 15.	Dec. 12	S-5
<b>BRONZE MINSTREL</b>	Intermediate coral red pompon. Fine for Christmas.	Dec. 13	S-4
<b>DK. BR. MINSTREL</b>	Reddish bronze sport. Deeper color. Smaller, harder flower.	Dec. 13	S-4
<b>RED MINSTREL</b>	A sport from Br. Minstrel with a lively red glow added.	Dec. 13	S-4

<b>FLAME MINSTREL</b>	Intermediate pompon. Reddish-bronze Minstrel selection that most closely resembles Red Minstrel in appearance. This represents richer color, superior response, and vigor over all the bronze Minstrel sports. Spray programs from mid November thru December.	Dec. 13	P
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Red Enchantress



Crackerjack



## BRONZE &amp; RED POMPONS, DECORATIVES, SINGLE &amp; ANEMONES

Variety	Description	Normal Flowering Date	Price	Variety	Description	Normal Flowering Date	Price
<b>14-WEEK VARIETIES (Pinch August 25)</b>							
<b>BRONZE RIVIERA</b>		Dec. 15	S-3	<b>CHRISTMAS GREETING</b>		Dec. 15	S-6
Intermediate orange bronze decorative.				Large red decorative. Fine for Christmas.			
<b>CLARET</b>		Dec. 15	S-2	<b>MERRYMAKER</b>		Dec. 20	S-5
A brilliant red daisy.				Intermediate red single. Sprays Dec. 1-March 1.			
<b>TOPAZ</b>		Dec. 15	S-2	<b>POINSETTIA</b>		Dec. 20	S-5
Warm orange bronze single. Sprays, Dec. 1-March 1.				Large scarlet red daisy. Tall sprays for Dec.			

## PINK POMPONS, DECORATIVES, SINGLES &amp; ANEMONES

## 7-WEEK GARDEN VARIETIES (Pinch July 7)

<b>SPELLBOUND</b>	Oct. 1	S-6	<b>ALERT</b>	Oct. 14	S-5
Intermediate lavender decorative. Ideal spring pot.			Intermediate intense purple decorative. An impressive color for spring pot plants. This is the Humdinger of the garden varieties.		
<b>MISCHIEF</b>	Oct. 10	S-4	<b>FUCHSIA FAIRY</b>	Oct. 14	S-2
Small single. Dark purple with contrasting yellow discs produced in profuse abundance on a globose plant. A colorful novelty that lends itself for spring. Also an attractive foreground garden variety.			Small light pink decorative. Compact, globose growth habit similar to the Cushion varieties. Spring plants. A marked color improvement over Major Cushion as a foreground garden variety.		
<b>JOYBRINGER</b>	Oct. 10	S-4			
Salmon rose pompon. For borders and pot culture. Spreads well. Short and compact.					

## 8-WEEK VARIETIES (Pinch July 14)

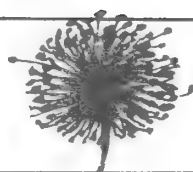
<b>CANDYTUFT</b>	Oct. 15	P	<b>CITATION</b>	Oct. 15	S-2
Lavender-pink button pompon. Short, well-branched growth habit. Produces a greater mass of small durable blooms than Masquerade, either as an early spring pot plant from May thru June, and October with MEDIUM TREATMENTS or as a natural flowering garden specimen. <b>Sold under agreement only</b>			Intermediate mauve pink pompon. A pot plant disbud. One of the best late garden varieties.		
<b>CUPID</b>	Oct. 15	S-2	<b>ENTERPRISE</b>	Oct. 15	S-2
Small pink decorative. Unique dahlia form. Prolific. Dwarf, masses and spreads as a garden variety. Disbud for spring pot plants.			Intermediate deep pink pompon. Excellent substance. Outdoor cut flower.		
<b>MAYFAIR</b>	Oct. 15	S-2	<b>ELIZABETH HOOD</b>	Oct. 15	S-3
Intermediate smooth pink single. For cut in the greenhouse. Outstanding production.			Large light orchid pink pompon. Garden backgrounds, and for cut in greenhouse.		
			<b>JEWELL</b>	Oct. 15	S-3
			Small formal pompon. Lavender pink, short and productive.		

SEE PRICE LIST ON PAGE 132



Candytuft





## PINK POMPONS, DECORATIVES, SINGLES & ANEMONES

Variety	Description	Normal Flowering Date	Price
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### 8-WEEK VARIETIES Cont'd)

<b>MIRTH</b>		<b>Oct. 20</b>	<b>S-4</b>
Intermediate pink single. Especially valuable April 15-Oct. 15. Durable and uniform response in the cloth house.			
<b>CAROLYN YOSICK</b>		<b>Oct. 20</b>	<b>S-4</b>
Intermediate lavender pink pompon.			

### 9-WEEK VARIETIES

<b>REVEILLE</b>		<b>Oct. 25</b>	<b>S-2</b>
Small pink pompon. Initiates and develops at 54°. Popcorn production. Requires low temperature finish. Spray programs.			
<b>PINKETTE</b>		<b>Oct. 25</b>	<b>S-4</b>
Small pink pompon. Greenhouse May 1-Oct. 25. Cloth house.			
<b>ETHRElda</b>		<b>Oct. 25</b>	<b>S-3</b>
Intermediate orchid pink anemone. Dwarf, breaks freely, responds well. High temperature color retention. Disbud pot plant the year round.			
<b>VOGUE</b>		<b>Oct. 25</b>	<b>S-2</b>
Large pink single. Beautiful form and substance. Sprays May 1-July 1, and Sept. 1-Oct. 25. Cloth house.			
<b>REWARD</b>		<b>Oct. 25</b>	<b>S-5</b>
A very productive deep pink single that holds color well. Tolerates 54°. Greenhouse, May 1-Oct. 25, Cloth house.			
<b>PINK DOT</b>		<b>Oct. 25</b>	<b>S-6</b>
Small pompon. Fine two-tone. Cloth house, July 15-Oct. 25.			
<b>GAIL</b>		<b>Oct. 25</b>	<b>S-3</b>
Small pink pompon. Selection from Pink Dot that displays an additional overall color intensity. A cloth house variety, July 15-Oct. 25.			
<b>BETTY ROSE</b>		<b>Oct. 25</b>	<b>S-2</b>
Large light lavender pink anemone.			

<b>WAGONWHEELS</b>		<b>Oct. 25</b>	<b>P</b>
Intermediate anemone. Silvery-coral reverse color as displayed by all completely tubular petals. A novel form representing a spoked wheel in appearance. Vigorous growth habit develops tall plants abundantly supplied with spray masses of perfect florets. Provides a uniquely different cut flower pom in both fast and regular spray programs from April thru October. Color is best expressed in cool finishing temperatures. Suitable outdoor cut flower in the fall for either shaded or natural flowering.			

**Sold under agreement only**

Variety	Description	Normal Flowering Date	Price
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<b>MARY McARTHUR</b>		<b>Oct. 23</b>	<b>S-2</b>
Small deep coral pink pompon.			
<b>PRELUDE</b>		<b>Oct. 24</b>	<b>S-2</b>
Intermediate coral pink single. Requires cool finish.			

### (Pinch July 21)

<b>THOMAS JOHNSON</b>		<b>Oct. 28</b>	<b>S-3</b>
Large decorative. Deep orchid pink. Ideally suited to the fast disbud programs, May and June, also Oct. 15-Dec. 1. Develops exceptional stretch and heavy rigid stems. Individual flowers surpass the size of Portrait. Color and petallage improved by bright days and cool nights.			

<b>GLAMOUR</b>		<b>Nov. 1</b>	<b>P</b>
A formal pompon disbud of intermediate size. Lavender pink with intensified centers. Spreading and stocky growth habit render it useful primarily as a pot plant variety from March thru November. MEDIUM TREATMENT. Improves the breaking habit of Portrait and the stem strength of Blue Ribbon. The colorful tone on tone contrast lends glamour to its appeal.			

**Sold under agreement only**

<b>HANDSOME</b>		<b>Nov. 1</b>	<b>P</b>
Intermediate decorative pom. Lavender pink. Color, size, and form bear a striking resemblance to Bluechip. Slightly larger and more closely internoded foliage lends it to pot plants the year round. TALL TREATMENT. Superb natural spray cut pom from mid April thru mid November. Is inherently as low temperature tolerant as Bluechip, 52° minimum, for bud initiation. Produces slightly smaller flowers but more of them. A highly versatile pompon.			

**Sold under agreement only**

<b>BLUECHIP</b>		<b>Nov. 1</b>	<b>S-9</b>
Intermediate luminous pink decorative. Recommended in the greenhouse, May 1-Nov. 15. Cloth house, July 15-Nov. 1. Top notch pink. Tolerates 54°.			

<b>PINKCHIP</b>		<b>Nov. 1</b>	<b>S-3</b>
Intermediate decorative. A flattering light pink selection of Bluechip. Identical growth habit. Color resists fading. Can be grown whenever Bluechip is recommended. Greatest color difference is noted when finished at 60° or less. Greenhouse May 1-Nov. 15. Cloth house July 15-Nov. 1.			

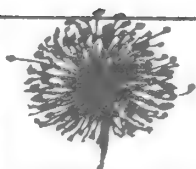
SEE PRICE LIST ON PAGE 132



*Glamour*



*Handsome*



## PINK POMPONS, DECORATIVES, SINGLES & ANEMONES

Variety	Description	Normal Flowering Date	Price
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### 9-WEEK VARIETIES (Cont'd)

<b>DARKCHIP</b>		Nov. 1	P
Intermediate dark lavender pink sport of Bluechip. Color similar to that of Pennant but brighter. In the spring months, growth is normally 3-4" taller than Bluechip and 3-4 days later to flower. Can be flowered whenever Bluechip is grown, May thru mid November as a greenhouse spray. Like all the rest of the Bluechip sports, the color becomes enhancingly luminous under normal incandescent light.			

Variety	Description	Normal Flowering Date	Price
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<b>DK. PINK BUCKINGHAM</b>		Nov. 1	S-2
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Intermediate intensified pink single. Sport of Pink California Daisy. A west coast cloth house variety.

<b>LILLIAN DOTY</b>		Nov. 1	S-3
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Large light pink pompon. Disspray and disbud.

<b>TEMPO</b>		Nov. 3	S-4
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Intermediate deep pink decorative. A 9-week Masterpiece. Recommended in the greenhouse, May 1-Nov. 15, and cloth house, Sept. 15-Nov. 1.

### 10-WEEK VARIETIES (Pinch July 28)

<b>MERMAID</b>		Nov. 5	P
Intermediate pompon disbud. Medium lavender pink with an intense tone on tone center contrast. A dwarf version of Portrait with decidedly better breaking action and spreading habit. Unfailing as a year round pot variety using <i>SHORT TREATMENT</i> . High temperature color retention equals that of Blue Ribbon. Fine foliage with smart, formal form. <b>Sold under agreement only</b>			

<b>SOUTHDOWN PINK</b>		Nov. 5	P
Intermediate duplex disbud of Valencia size and form. Delicately shaded pink close to a true light pink carnation. Complemented with green disc centers. Wide, waxy petals. An accepted variety in Europe possessing all the needed traits for a rewarding product in the <i>fast disbud program</i> from October thru mid June. Tolerates 56° minimum temperatures. Develops equally as well during the summer periods but 60° or lower is required for best color expression.			

<b>PARISIENNE</b>		Nov. 5	S-4
Intermediate shell pink single. The color is as close to true pink as exists in the chrysanthemum. A color far better than that of Reward. Sprays, Sept. 15-Nov. 15.			

<b>DELIGHT</b>		Nov. 5	S-5
Intermediate pink daisy. Productive, durable, striking color, and fresh appearance. Spray crops May 1-July, and Sept. 15-Nov. 15. Cloth house, July 15-Nov. 1. Improved with center bud removal.			

<b>PORTRAIT</b>		Nov. 8	S-9
Large lavender pink pompon. A versatile variety. Tolerates 54° Responds well to partial disbudding. Excellent year round pots. Greenhouse, March 1-July 1, and Sept. 15-Nov. 15. Cloth house, July 1-Nov. 1. Disbuds, Sept. 15-July 1. For sprays height is improved by addition of one long day week.			

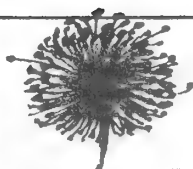
<b>DARK PORTRAIT</b>		Nov. 8	S-3
Large pompon. Dark magenta sport of Portrait. Equally as versatile. Maximum color perfection achieved with a low temperature finish. Pots year round except July and Aug. Sprays, greenhouse March 1-July 1; Sept. 15-Nov. 15. Cloth house July 15-Nov. 1.			

<b>PINK PORTRAIT</b>		Nov. 8	S-3
Large light lavender pink pompon. Portrait sport with an identical growth habit. A useful supplement for Portrait during periods of the year when a shade lighter than Portrait may be desired.			

SEE PRICE LIST ON PAGE 132



White Enchantress (See page 100)



## PINK POMPONS, DECORATIVES, SINGLES & ANEMONES

Variety	Description	Normal Flowering Date	Price
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Variety	Description	Normal Flowering Date	Price
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### 10-WEEK VARIETIES (Cont'd)

**PROFILE** Nov. 8 P  
Large pompon. Another distinctive color variation to add to the increasing number of beautiful Portrait sports. A lively pink shade between that of Portrait and Dark Portrait. Form is more decorative. Growth, vigor and breaking habits are as good if not better than Portrait. Recommended for pots and spray programs from March thru December. Summer color is best with some shade protection, but when finished cool, maximum color expression is dazzling among the Portraits.

**DARK BULKELEY** Nov. 8 S-2  
Intermediate formal deep lavender pompon.

**CRITERION** Nov. 8 S-6  
Large pink decorative with a vigorous, compact growth habit. A new and valuable pot plant variety, Sept. 1-July 1. Also a fine cut flower variety, May 1-July 1; Sept. 15-Nov. 15, with one extra long day week and center bud removed. Tolerates 54°.

**PINK DELUXE** Nov. 10 P  
Medium to large lavender pink disbud. A significant achievement in the development of flower size within the pinks available for pots. Four to five inch decorative type flowers are produced on a Bonnafon type chassis. Heavy stems, short internodes, with free and wide-angled breaking action. Can be efficiently flowered in pots 12 months of the year with either MEDIUM or TALL TREATMENT. Color is best preserved during the summer months when developing flowers are given some shade protection. A variety for those who seek the best.  
**Sold under agreement only**

**ILLINI ACCENT** Nov. 10 S-1  
Intermediate to large decorative. Deep mauve purple. Stocky growth habit. Will tolerate 52° for initiation and development. Full color retention requires less than 60° finishing temperatures. A versatile responsive variety that can be recommended for spray programs in the cloth house mid September through October; in the greenhouse mid September through November. Pot programs with medium treatment mid September through mid June with cool finish. Low temperature tolerance and intense color are its distinctive qualities.

**PLUM** Nov. 10 P  
Large silvery lavender duplex spider. Petal completely tubular and partially incurved. A close counterpart to the old Vivacious Lady. Equal to the flawless dependability and superb growth habit of Luyona in a year-round fast disbud program. This is another salient contribution to enlarge the range of variety for disbuds.

**BONNIE** Nov. 10 S-5  
Intermediate pink pompon. Improves Pinkette form and color. Formal and hard. Pink Igloo. Spray crops, May 15-July 1; Sept. 15-Nov. 15. Cloth house, July 15-Nov. 1. Tolerates 56°. Delayed by excessive high temperature during bud development.

**PENNANT** Nov. 10 S-6  
Intermediate deep pink pompon. Recommended in the greenhouse, April 1-Nov. 15. Cloth house, July 15-Nov. 1.

**CADENZA** Nov. 10 S-3  
Large anemone disbud. Lavender pink, vigorous and responsive. Tolerates low temperature (56°) for bud initiation and requires 60° or less for best finishing results. Vastly improves the quality and growth of Enchantress as a fast winter disbud, Oct. 1-June 1.

**PERSONALITY** Nov. 10 S-3  
A large luminous-pink incurved pompon.. Tolerant of 56° for bud initiation and development. Adds color and form improvement to Queen of Pinks as a pot plant, March 1-July 1; Sept. 1-Jan. 1, and single pinch. Uniquely favored with short internodes and large foliage which complements it when grown as a pot plant.

**DK. PK. PANDORA** Nov. 10 S-2  
Intermediate dark pink decorative. Selection from Pandora. Sprays Sept. 15-Nov. 10. Fast disbud programs. Cloth house Sept. 15-Nov. 1. Requires 60° initiation.

**SALMON PANDORA** Nov. 10 S-2  
Intermediate salmon decorative. Selection from Bronze Pandora. Unparalleled color for fall cloth house and greenhouse.

**PANDORA** Nov. 10 S-5  
Large luminous pink decorative.

**THYRA** Nov. 10 S-2  
Intermediate deep lavender pompon.

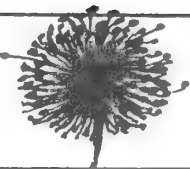
SEE PRICE LIST ON PAGE 132



Illini Accent



Jubilation (See page 119)



## PINK POMPONS, DECORATIVES, SINGLES &amp; ANEMONES

Variety	Description	Normal Flowering Date	Price
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**SCINTILLATION** Nov. 10 S-2  
Intermediate deep pink pompon. Very vigorous and heavy. Superb cloth house variety, Sept. 15-Nov. 1. Greenhouse, Sept. 15-Nov. 15. Requires 60° bud initiation.

**LINDA LOU** Nov. 10 S-4  
Intermediate light lavender pink anemone. Responsive. Tolerates 54°. Greenhouse, April 1-Nov. 10. Cloth house, July 15-Nov. 1.

**DK. LINDA LOU** Nov. 10 S-2  
Intermediate deep lavender pink anemone. Very productive.

**TUXEDO** Nov. 10 S-2  
Large anemone. Disbud.

**HUMDINGER** Nov. 10 S-5  
Large luminous violet purple, formal pompon. A valuable disbud pot plant. Cloth house, July 15-Nov. 1. Tolerates 54°. Strong consumer appeal.

Variety	Description	Normal Flowering Date	Price
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**MASTERPIECE** Nov. 12 S-5  
Intermediate lavender pink pompon. Disspray. Tolerates 54°. Greenhouse.

**ROSE MASTERPIECE** Nov. 12 S-4  
Intermediate light lavender pink pompon. Disspray. Finish cool. Greenhouse, April and May, also Sept. 15-Nov. 12.

**MEMORIAL** Nov. 12 S-2  
Intermediate pink anemone.

**CHEERFUL** Nov. 12 P  
Intermediate natural spray pompon. Lavender pink with tone on tone contrast. Best described as a "Delmar" flower on a "Delight" chassis. Recommended in the greenhouse spray program from mid April thru mid December. An easy variety to cut and handle. Sprays usually terminal. Summer finishing temperatures above 80° may dull color contrast. Ideal for air-cooled houses. Always responsively dependable. It has class and quality, radiantly cheerful.

**Sold under agreement only**

## 11-WEEK VARIETIES (Pinch August 4)

**TAFFETA** Nov. 15 S-6  
A two-tone pink pompon. Greenhouse, March and April, Oct. 1-Dec. 1. Best with cool finish.

**DARK TAFFETA** Nov. 15 S-5  
Dark pink sport selected from Taffeta. Retains more color than Taffeta when fading becomes a problem. Fine for the late cloth house and early spring programs.

**DARK NORMA** Nov. 15 S-3  
Large dark lavender anemone. Disbud. Fast crop, Nov. 1-April 1.

**RHYTHM** Nov. 15 S-1  
Smooth light pink intermediate daisy. Characterized by extra vigor and fast rate of growth. As a result, efficiency is increased by provided 12-week timing. A lively pink single that can be given the same timing as well as flowering closely with Galaxy. Recommended for greenhouse programs from October through mid December and March through April.

**JUBILATION** Nov. 15 S-1  
Large pompon. Masterpiece pink. Growth is clean and strong with sharp responses. Jubilation is the best product to date that meets the need for a late fall, early winter and spring Bluechip. Spray and habit are closely identical. Tolerant of 56° for initiation and development. The performance and production improve the Taffeta, Almega, Delmar series. Recommended for October through mid December and March through mid May greenhouse spray programs. Superb cloth house performance whenever 11-week varieties are utilized.

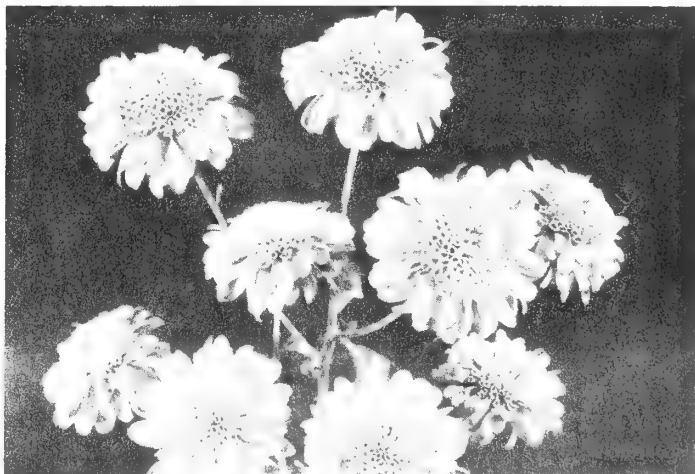
**ILLINI SPRINGTIME** Nov. 15 S-2  
Intermediate pink single. Outstanding color and vigor.

**MAGIC** Nov. 15 S-1  
Intermediate anemone. Dark orchid pink with gold tipped cushions. Rapid, vigorous growth. Very durable and useful in the cloth house mid September through October. In the greenhouse it combines flawless performance with production and striking color during October through December and March through April. Tolerant of 56° for initiation and development. Contributes needed form variety to the 11-week pompon group.

SEE PRICE LIST ON PAGE 132

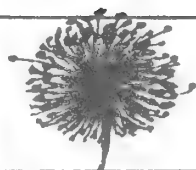


*Cheerful*



*Magic*





## PINK POMPONS, DECORATIVES, SINGLE & ANEMONES

Variety	Description	Normal Flowering Date	Price
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Variety	Description	Normal Flowering Date	Price
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### 11-WEEK VARIETIES (Cont'd)

**VEDOVA** Nov. 15 P  
Extra large Valencia size, anemone disbud. Pastel shade of a lustrous lavender pink with small green-tipped cushions. Color is best expressed in a cool 60° environment. The performance, beauty, and quality of this variety establishes a new precedence from October thru May flowering periods either as a fast or regular disbud, or a pot variety using TALL TREATMENT. The combination of breaking action, rigid stems, attractive foliage, and sizeable flowers far exceeds the potential that Beautiful Lady can provide.

**STACCATO** Nov. 20 P  
Intermediate formal pompon. Lavender pink. Much like an 11-week Minstrel in form, but reliably responsive all through the winter from October thru April in the regular spray program. Tolerates 56° minimum. Flower durability lends itself well to clothhouse use. Color brightness best retained at night temperatures of 60° or below. A productive and profitable addition to the presently small group of popular 11-week pinks.

Sold under agreement only

**GRAND SLAM** Nov. 20 S-3  
Brilliant silvery pink daisy.

**ALMEGA** Nov. 20 S-6  
Large silvery pink pompon. Form, color and substance excellent. Greenhouse. Fast disbuds, Sept. 15-May 1. Color is unexcelled in its season.

**DARK ALMEGA** Nov. 20 S-5  
Dark lavender pink sport selected from Almega. Habit and performance are identical to the parent variety.

**MARION BREEDON** Nov. 20 S-1  
Intermediate to large anemone. Smooth lavender-rose pink. Achieves a new standard for good form and color in anemones. Vigor, production and quality greatly improve the Pink Long Island Beauty series for fast disbud and disspray programs. Recommended season is mid September through October in the cloth house; mid September through December in the greenhouse regular spray and fast disbud crops.

**PINK L. I. BEAUTY** Nov. 20 S-3  
Large light pink yellow cushion anemone. Disspray and disbud.

**DK. PK. L. I. BEAUTY** Nov. 20 S-2  
An intensified color selection of Pink L. I. Beauty. Disspray and disbud.

**VENOYA** Nov. 22 P  
Extra large lavender-pink anemone disbud. Strikingly similar in growth to Vedova, Venoya flower develops a substantially larger green-eyed cushion with greater depth, in addition to flowering 5 to 7 days later. It is equally as versatile and outstanding. Fast and regular disbud programs, and pot plant programs using TALL TREATMENT from October thru May. Color retention on Venoya too, requires cool 60° finishes. The year-round pot plant grower will find that both Vedova and Venoya well surpass the product standards that they are now accustomed to producing during the mid winter months.

**MINUET** Nov. 23 S-4  
Small true pink pompon. Excellent form.

**ILLINI FORMAL** Nov. 23 S-4  
Intermediate lavender pink pompon. Very novel form with tubular rays.

**CELEBRITY** Nov. 23 P  
Intermediate decorative. Color is a discriminating shell pink. Objectively bred and selected for a larger sized flower and a more lucidly clear pink color than Almega provides. Substantially increased vigor renders this a real prize for greenhouse sprays from mid October thru mid April. Production competes favorably with any outstanding late variety for winter flowering in the north. Maximum color needs a cool 60° finish. Flower size may be enlarged by partial disspray.

Sold under agreement only

SEE PRICE LIST ON PAGE 132

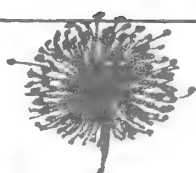


Staccato



Marion Breedon





## PINK POMPONS, DECORATIVES, SINGLE & ANEMONES

Variety	Description	Normal Flowering Date	Price
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### 12-WEEK VARIETIES (Pinch August 11)

<b>DELMAR</b>	Intermediate pompon. Almega pink. Vigorous, productive, and distinctive dot color contrast. Improved Almega habit. Spray crops, March and April; Sept. 15-Jan. 1.	Nov. 25	S-5
<b>ILLINI ROSEGLOW</b>	Intermediate pink pompon. Requires low temperature (max. 55°) finish. Productive. Best dissprayed. Greenhouse in March and natural season.	Nov. 25	S-3
<b>PRINCESS</b>	Small pink pompon. Hard and durable.	Nov. 25	S-3
<b>BEAUTIFUL LADY</b>	Large anemone. Disbud.	Nov. 25	S-5

<b>DESIRE</b>	Intermediate anemone. Delicately colored light pink. High crowned cushions. A forerunner to faster, and more efficient winter varieties for northern greenhouses. When grown as a natural spray this performs more advantageously on the fast disbud time schedule than it does on the regular greenhouse spray schedule. Excessive long day weeks on the regular schedule promotes early crowning and consequently overcropping. Recommended as a fast spray from November thru mid April. Color retention demands a cool 60° finish.	Nov. 25	P
Sold under agreement only			

<b>VALENCIA</b>	Large light lavender pink single. Disbud and disspray.	Nov. 28	S-4
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### 13-WEEK VARIETIES (Pinch August 18)

<b>EMINENCE</b>	Intermediate daisy. Bright lavender pink. A 60° variety well suited to northern winter conditions. Very vigorous and should therefore be treated as a 14-week variety. Easily grown, strong and productive but exacting in its 60° minimum temperature requirements. Out performs Debutante in production, size and substance.	Dec. 5	S-1
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<b>ENCHANTRESS</b>	Large lavender pink anemone. Disbud and disspray. Fast disbuds, in Dec.	Dec. 5	S-3
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<b>DK. ENCHANTRESS</b>	Large deep pink anemone. Disbud and disspray. Fast disbuds in Dec.	Dec. 5	S-3
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Variety	Description	Normal Flowering Date	Price
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<b>DARK VALENCIA</b>	Large lavender pink single.	Nov. 28	S-5
<b>DUBONNET VALENCIA</b>	Dubonnet sport of Valencia.	Nov. 28	S-2
<b>ORCHID VALENCIA</b>	Large single. Semi-anemone cushion.	Nov. 28	S-2
<b>SALMON VALENCIA</b>	Large single. Outstanding color.	Nov. 28	S-3

<b>NUGANO</b>	Intermediate pompon. A quality flower. One of the most important pink pompoms for this season. Greenhouse, Oct. 1-Dec. 1. Add an extra week to improve height.	Nov. 30	S-2
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<b>HERITAGE</b>	Intermediate formal dark pink pompon. Tall and vigorous.	Dec. 1	S-3
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<b>EMPRESS</b>	Large disbud and disspray anemone. Deep magenta pink. An Enchantress seedling that combines increased vigor with faster, more uniform responses. Performs well in the fast disbud program December through April. Color and form possess unusual appeal. Good flower substance coupled with wiry stems permit easy handling.	Dec. 1	S-1
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<b>PINK SNOWDROP</b>	Smooth light pink sport from Snowdrop. Growth habit and response are identical to the parent variety. Mid November through mid March spray programs.	Dec. 8	S-4
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<b>ARGYLE</b>	Small pink pompon. Hard flower plus very acceptable pink shade. An outstanding late pink pompon.	Dec. 10	S-2
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<b>DEBUTANTE</b>	Intermediate pink single with color similar to that of Valencia. Best at lower temperature finish. Sprays Nov. 15-March 15.	Dec. 10	S-5
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<b>PINK SUPREME</b>	Large pink anemone. Habit resembles Imp. White Supreme. Tall disbud.	Dec. 10	S-2
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SEE PRICE LIST ON PAGE 132



Empress



Rhythm (See page 119)



## PINK POMPONS, DECORATIVES, SINGLE & ANEMONES

Variety	Description	Normal Flowering Date	Price
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Variety	Description	Normal Flowering Date	Price
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### 13-WEEK VARIETIES (Cont'd)

<b>IMP. DARK SUPREME</b>	Dec. 13	S-3
Large pink anemone. Short. Late disbud.		
<b>MINSTREL</b>	Dec. 13	S-5
Intermediate lavender pink pompon.		

<b>DK. PK. MINSTREL</b>	Dec. 13	S-4
A clear, clean deep mulberry shade of Minstrel.		
<b>IMP. PK. MINSTREL</b>	Dec. 13	S-4
Its color resembles that of Pink Dot and it does not deteriorate rapidly with maturity. Imp. Pk. Minstrel has form, substance and color.		

### 14-WEEK VARIETIES (Pinch August 25)

<b>RIVIERA</b>	Dec. 15	S-4
Intermediate luminous pink decorative. Requires 60° initiation. Finish cool. Sprays, Dec. 1-March 1.		
<b>ROSALIND</b>	Dec. 20	S-2
Intermediate light lavender single. Tolerates 56°. Sprays, Dec. 1-March 1.		
<b>DEFIANCE</b>	Dec. 20	S-3
Intermediate decorative. Sprays, Dec. 1-March 1. Requires 60° initiation cool finish.		
<b>MEDALLION</b>	Dec. 20	S-4
Intermediate lavender rose pompon.		

<b>ROSE MEDALLION</b>	Dec. 20	S-2
Rose pink sport of Medallion.		
<b>LYNDA McLANE</b>	Dec. 25	S-4
A late pink pompon with a habit that does not produce blind growth and a color that is highly acceptable. Late natural crops.		
<b>ALVODA</b>	Dec. 25	S-5
Large smooth Portrait pink decorative. One of the best for late spray programs. Dec. 1-March 15. Free growth. Habit, size and color improve Defiance, Debutante and Riviera.		

## WHITE STANDARDS

### 8-WEEK VARIETIES (Pinch July 14)

<b>WHITE PINK CHIEF</b>	Oct. 15	S-3
Intermediate pure white incurve. Selection from Pink Chief. Responds well under high temperatures. Standard and fast disbud programs May 1-Oct. 15.		
<b>SILVER SHEEN</b>	Oct. 20	S-6
Intermediate incurve. September shadings and natural under glass. Tolerates 54°.		

<b>WHITE CHIEF</b>	Oct. 20	S-4
Large incurve.		
<b>CHRISTINA</b>	Oct. 23	S-3
Small incurve. Used for pots.		

### 9-WEEK VARIETIES (Pinch July 21)

<b>SILVER QUEEN</b>	Oct. 25	S-3
White Fuji mum. Stem improves Rayonnante. Valuable for spring and fall programs.		

<b>MARBLEHEAD</b>	Oct. 25	S-5
Medium clear white incurve. Durable and responsive. Best early white for fast crop program May 1-Dec. 1. Standards Sept. 15-Oct. 25.		

SEE PRICE LIST ON PAGE 132



Moontide (See page 123)



## WHITE STANDARDS

Variety	Description	Normal Flowering Date	Price
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### 9-WEEK VARIETIES (Cont'd)

<b>GRANITE STATE</b>		<b>Oct. 25</b>	<b>S-5</b>
Large white disbud pompon. For pots Oct. 1-July 1.			
<b>MRS. ROBINSON</b>		<b>Oct. 25</b>	<b>S-4</b>
Intermediate white incurved standard. Beautiful form and heavily petalled. Popular All Saints Day standard as a southern field and cloth house variety.			
<b>AMBASSADOR</b>		<b>Oct. 25</b>	<b>S-5</b>
Large ivory incurve.			

<b>MOONTIDE</b>		<b>Oct. 28</b>	<b>P</b>
Medium to small ivory-white standard. Develops into a tightly incurved ball form. More accurately defined in appearance as an over-sized Luna flower. Fast growing variety. Highly recommended as a <i>fast disbud</i> from March thru December. Withstands minimum of 56° in the spring for bud initiation.			
<b>Sold under agreement only</b>			

<b>THEMESONG</b>		<b>Nov. 1</b>	<b>P</b>
Medium semi-incurved white standard. Possesses Good News petallage and durability. Adapted especially for summer and high light intensity periods. Sufficiently versatile to fit <i>standard</i> , <i>fast disbud</i> , and <i>pot programs</i> from June thru mid November. <i>TALL TREATMENT</i> for pots. Non-restricted development and resistance to burning during the summer months. Vigor often surpasses that of Good News in mid summer.			
<b>Sold under agreement only</b>			

### 10-WEEK VARIETIES (Pinch July 28)

<b>GIANT BETSY ROSS</b>		<b>Nov. 5</b>	<b>S-8</b>
Large incurved sport of Betsy Ross. Requires high temperatures for initiation and development. Standard programs June 15-Nov. 5.			
<b>WHITE RAYONNANTE</b>		<b>Nov. 5</b>	<b>S-4</b>
Spider. Straight tube.			
<b>OREGON</b>		<b>Nov. 5</b>	<b>S-3</b>
Large white semi-incurve. Exclusively a pot plant variety Sept. 1-Aug. 1. Stronger habit, larger and more beautiful flower than Wilson's White. Compact, short, rigid growth and vigorous breaking action. Flowers develop more rapidly when finished at 60° or less. Will rapidly become the favorite white mum for pots. Does not blacken its centers during the winter months.			

Variety	Description	Normal Flowering Date	Price
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<b>QUEEN'S LACE</b>		<b>Nov. 1</b>	<b>S-6</b>
Spider. Standard program March 15-Nov. 15. Pots Sept. 15-July 1. Fast disbuds April 1-Nov. 15.			

<b>WILSON'S WHITE</b>		<b>Nov. 1</b>	<b>S-7</b>
Intermediate pure paper white pot plant variety for March 1-Dec. 1.			

<b>ALBATROSS</b>		<b>Nov. 1</b>	<b>S-8</b>
Large incurve. Tolerates 54°. Important west coast variety. Greenhouse Sept. 15-Nov. 15.			

<b>WHITE MARY GARDEN</b>		<b>Nov. 1</b>	<b>S-4</b>
White sport from Mary Garden. Spider. Tinges at low temperatures. Greenhouse May 1-Nov. 1.			

<b>LUNA</b>		<b>Nov. 1</b>	<b>S-5</b>
Small light cream incurve. Tolerates 54°. Compact and uniform. Versatile pot plant variety throughout the year.			

<b>NIGHTINGALE</b>		<b>Nov. 5</b>	<b>S-4</b>
Chartreuse green spider. Very popular West Coast novelty. This stock is now considered free of aspermy virus. Valuable in natural programs.			

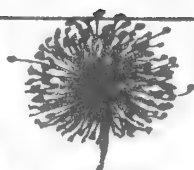
<b>INDIANAPOLIS WHITE</b>		<b>Nov. 5</b>	<b>S-10</b>
Large incurve. Tolerates 54°. Standards Sept. 15-June 15. Disbuds the year round.			

<b>IMP. IND. WHITE</b>		<b>Nov. 5</b>	<b>S-5</b>
Selected for, and provides a very significant reduction of winter quilling in comparison with the original parent variety. During the winter, depth of flower is greater and incurvature improved. Proven to be devoid of pink tinges at low finishing temperatures. Slight ivory overcast until full maturity. This is the answer to growers who desire better form in their fall, winter and spring crops of Indianapolis White.			

SEE PRICE LIST ON PAGE 132



*Themesong*



## WHITE STANDARDS

Variety	Description	Normal Flowering Date	Price
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**WHIRLWIND** Nov. 5 S-3  
Large pure white reflexed standard. Requires high summer temperatures for best response and developmnt. Supplement for Betsy Ross. More durable, strong growth and heavy petal-lage. Shaggy, interesting new form. Standard programs July 1-Nov. 5.

**SUSAN LEIGHTON** Nov. 6 S-4  
Large ivory white spider. Standard Oct. and Nov. Intolerant of low light intensities. Finish cool. Supplements Queen's Lace with a much showier flower.

**SENTINEL** Nov. 8 S-3  
Intermediate ivory white tightly incurved standard. Vigor and habit resembles Mefo. Hard flower, durable and tolerant of heat in summer. Requires high light intensities. Standard and fast disbud programs April 1-Nov. 8. A more durable shipper to supplement Betsy Ross in the summer program.

**JEAN ELIZABETH** Nov. 10 S-4  
Large semi-incurve sport of Orchid Queen.

**CRYSTAL QUEEN** Nov. 10 S-6  
A sport of Orchid Queen that improves Jean Elizabeth in clarity of color and compactness of flower. Standards Sept. 15-July 1.

### 11-WEEK VARIETIES (Pinch August 4)

**STERLING** Nov. 15 S-3  
Large pure white incurve.

**MARKETEER** Nov. 18 S-6  
Intermediate chalk white incurve.

### 12-WEEK VARIETIES (Pinch August 11)

**WHITE PETER JOHN** Nov. 25 S-4  
Large clear white decorative. Standard and fast disbud Nov. 1-Jan. 15. Intolerant of low temperature. 60° minimum for bud initiation; 55° for bud development.

**CHATTANOOGA** Nov. 25 S-5  
Large pure white incurve. Standard Nov. 1-April 1.

**DECEMBER GLORY** Dec. 1 S-5  
Intermediate incurve. Valuable for natural crops.

**MARGARET MOELLER** Dec. 3 S-5  
Intermediate incurve. Short habit.

Variety	Description	Normal Flowering Date	Price
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**WHITE POCKETT** Nov. 10 S-3  
Large incurved exhibition.

**MEFO** Nov. 10 S-8  
Large ivory incurve. Tolerates 56°. Standards Sept. 15-June 15.

**MONUMENT** Nov. 10 S-5  
Intermediate ivory incurve.

**WHITE YAMANE** Nov. 10 S-4  
Large disbud spider. Pure white. A West Coast variety.

**FRED SHOESMITH** Nov. 12 S-1  
Large white incurve. A very late 10-week or early 11-week variety. Relatively short, stocky growth that should receive 10-week treatment to obtain desired stem length. Markedly excels the size and form of winter Ind. White, and usually flowers about 7 days later in either a lighted or shaded program. Maximum perfection is obtained in the November thru mid June standard programs. It does not display winter quill nor pink in any manner. Requires protection and is slowed under high temperature conditions. Upright but good for spring and fall pots with tall treatment. A superlative variety of great promise for its recommended period.

**WHITE FRICK** Nov. 20 S-2  
Intermediate incurve. Short habit. Tinges pink at low temperatures.

**INDIANA MARKET** Nov. 20 S-2  
Intermediate incurve.

**WHITE MISTLETOE** Dec. 5 S-2  
Intermediate tall incurve. Best results require 50° finish.

**SMITH'S WHITE** Dec. 10 S-6  
Intermediate semi-incurve.

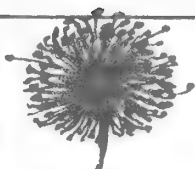
**DECEMBER WHITE** Dec. 15 S-4  
Intermediate incurve.

**SNOWLINE** Dec. 20 S-3  
A large showy white flower. Requires 60° to initiate and develop buds uniformly.

SEE PRICE LIST ON PAGE 132



*Balcombe Perfection (See page 129)*



## YELLOW STANDARDS

Variety	Description	Normal Flowering Date	Price
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Variety	Description	Normal Flowering Date	Price
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### 8-WEEK VARIETIES (Pinch July 14)

**HARVEST GOLDEN** Oct. 15 S-5

Large deep golden yellow decorative. Very colorful, responsive. Fast disbuds April 1-Nov. 1.

**GOLD LODE** Oct. 15 S-3

Intermediate lemon yellow reflex. Garden and greenhouse disbud.

**CELESTRA** Oct. 15 S-3

Small deep lemon yellow semi-incurve. Fast disbuds May 1-Nov. 1.

**SUNBURST** Oct. 20 S-3

Intermediate golden yellow reflexed decorative. Vigorous and prolific. Pots and fast disbuds May 1-Nov. Tolerates 54°.

**MRS. KIDDER** Oct. 20 S-5

Large golden yellow incurve.

**BUTTERBALL** Oct. 20 S-4

Intermediate deep lemon incurve.

**BLAZING GOLD** Oct. 23 S-7

Intermediate semi-incurve. Valuable for spring pots. Tolerates 54° with slight bronzing. Standards and fast disbuds April 1-Nov. 1.

### 9-WEEK VARIETIES (Pinch July 21)

**BRIGHTON YELLOW** Oct. 25 P

Large incurved standard mum. Intense golden yellow. Of English origin. Early and efficient for its short duration of use both as a *standard* and *fast disbud* from mid April thru June. Variety crowns prematurely when grown in high temperature environments. Shares no equal for color and size in its response group. A spring variety with speed and vigor.

**YEL. MARBLEHEAD** Oct. 25 P

Medium lemon-yellow incurve. Sport of Marblehead. Recommended for *standard* and *fast disbud* programs from May thru October. The Marbleheads require the high light, high temperature combination to achieve maximum stretch and flower size.

**GEORGIA** Oct. 25 S-5

Intermediate dark yellow incurve. Dwarf and compact. Improves Blazing Gold in the pot plant program. Intolerant to low light intensities. Tolerates 54°.

**YELLOW AMBASSADOR** Oct. 25 S-4

Intermediate light lemon yellow incurve.

**LUYONA** Oct. 25 S-4

Large yellow spider mum with quality blooms and fine stem. Standard and fast disbud program throughout the year.

**SUNGLOW** Oct. 25 S-4

Large golden yellow incurve.

**YELLOW LACE** Nov. 1 S-5

Lemon yellow sport of Queen's Lace. Standard program March 15-Nov. 15. Pots Sept. 15-July 1. Fast disbuds April 1-Nov. 15.

**GOLD LACE** Nov. 1 S-5

Golden yellow sport of Yellow Lace.

**YEL. ALBATROSS** Nov. 1 S-1

Large incurve. Lemon-yellow sport of Albatross. Primarily a West Coast variety possessing better than average shipping qualities. Suitable for *mid September thru mid November standard* programs.

**WILSON'S YELLOW** Nov. 1 S-3

Yellow sport from Wilson's White.

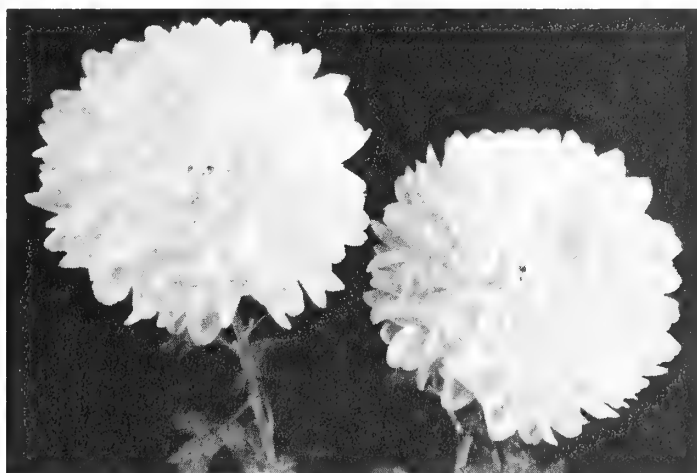
**GOOD NEWS** Nov. 1 S-10

Large deep yellow incurve. Tolerates 54°. Outstanding summer and fall variety. Standard April 1-Nov. 1.

**YELLOW IVANHOE** Nov. 1 S-5

Golden yellow sport. Fast disbuds the year around.

SEE PRICE LIST ON PAGE 132



Brighton Yellow





## YELLOW STANDARDS

Variety	Description	Normal Flowering Date	Price
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Variety	Description	Normal Flowering Date	Price
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## 10-WEEK VARIETIES (Pinch July 28)

**IMP. YEL. RAYONNANTE** Nov. 5 \$-4

A clear yellow selection of Yellow Rayonnante with increased size and improved form. Vigor and stem strength are also greater. West Coast variety.

**CHAIRMAN** Nov. 5 \$-3

Large golden yellow decorative. Standard and fast disbud programs May 1-Jan. 1. Tolerant to low temperatures for bud initiation. Vigorous. A flower form and degree of quality long needed in the year-round program.

**IMP. INDIANAPOLIS YELLOW** Nov. 5 \$-9

Light golden yellow selection of Ind. Yellow. Displays best form for yellow Indianapolis varieties in winter crops. Standard Sept. 15-June 15. Disbuds the year around.

**INDIANAPOLIS YELLOW** Nov. 5 \$-9

Large lemon yellow incurve.

**INDIANAPOLIS GOLD** Nov. 5 \$-5

Large incurved standard. Color intensifies the present Dark Ind. Yellow. Same growth habit and flower size.

**DARK INDIANAPOLIS YELLOW** Nov. 5 \$-7

Slightly shorter in growth habit than Ind. Yellow. Best response. Deep lemon yellow

**YELLOW BETSY ROSS** Nov. 5 \$-3

Intermediate lemon yellow incurve. Exhibits some high temperature tolerance of parent variety. Shorter growth habit. Restrict flowering to under glass July 1-Oct. 1. Somewhat smaller in size but tightly incurved. Flowers are more solid than Betsy Ross. Durable and responsive in high temperature programs.

**YELLOW RAYONNANTE** Nov. 5 \$-4

Yellow sport of Rayonnante. Straight tube. Requires high light and low temperature for strong stems.

**YELLOW LEIGHTON** Nov. 6 \$-3

Large spider tube and hook. Lemon yellow sport of Susan Leighton.

**YELLOW CALYPSO** Nov. 8 \$-3

Large lemon yellow incurve. Very short. Exclusively a pot plant variety April 1-July 1; Sept. 1-Dec. 1. Sport of Bronze Calypso. Single pinch. Best results are obtained with high temperature initiation and low temperature development. Flower size comparable to Indianapolis.

**YELLOW DELAWARE** Nov. 8 \$-3

Intermediate deep lemon yellow incurve sport from Delaware. Pot plant programs the year around. The same valuable chassis in a brilliant new color. Less sensitive to low temperatures for bud initiation than Bonaffon Deluxe for the late winter and early spring flowering period.

**GORDON WELLS** Nov. 8 \$-1

Intermediate lemon yellow incurve. Perfection in incurved form for winter. Responsive, but shatters when subjected to high temperatures. Provides a useful supplement to Indianapolis Yellow in November through May standard and fast disbud programs.

**YELLOW QUEEN** Nov. 10 \$-6

Large light lemon semi-incurved. Standard Sept. 15-July 1.

**YELLOW POCKETT** Nov. 10 \$-2

Large light lemon incurved exhibition.

**YELLOW MEFO** Nov. 10 \$-8

Large deep lemon incurve. Standard Oct. 1-June 15.

**CREAM MEFO** Nov. 10 \$-4

A cream colored sport from Mefo. Standard Sept. 15-June 15. Best form of the yellow Mefo's. Tolerates 56°.

**YELLOW MONUMENT** Nov. 10 \$-5

Intermediate light lemon incurve.

**HONEYDEW** Nov. 12 \$-3

Intermediate lemon yellow incurve.

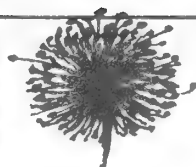
**GOLDEN SHOESMITH** Nov. 12 P

Large incurved yellow standard. Intensified color sport of Yellow Fred Shoemith. Useful for the same periods as parent variety. Regular standard programs and pots from mid March thru June and mid October thru December.

SEE PRICE LIST ON PAGE 132



Gordon Wells



## YELLOW STANDARDS

Variety	Description	Normal Flowering Date	Price
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Variety	Description	Normal Flowering Date	Price
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### 10-WEEK VARIETIES (Cont'd)

**YELLOW SHOESMITH** Nov. 12 P  
Large yellow incurve. Richly colored sport of Fred. Shoemith. Identical in most respects to parent. Slightly tighter form incurvature and less lower petal reflex. The Shoemiths are lending new hope to larger and better greenhouse standards for the mid March thru June and mid October thru December flowering periods. Fine for pots during the same period using TALL TREATMENT. Cool finishing temperatures are favorable to the most rapid flower development for the Shoemiths.

**YELLOW WAIKIKI** Nov. 13 S-1  
Large spider. Clear lemon-yellow sport from Waikiki. Similar in habit. Splendid in either the regular or fast disbud programs in the fall, October thru mid November.

### 11-WEEK VARIETIES (Pinch August 4)

**LORRAINE** Nov. 15 S-2  
Lemon spider. Hooked tube.  
**YELLOW MARKETEE** Nov. 18 S-3  
Yellow sport from Marketeer.  
**BONNAFFON DELUXE** Nov. 20 S-10  
Intermediate deep lemon incurve. Number one pot variety for year-round culture. Requires 65° for uniform bud initiation.

**FRIENDLY RIVAL** Nov. 20 S-5  
Intermediate intense golden yellow incurve.  
**HARVESTER** Nov. 23 S-6  
Intermediate deep lemon yellow incurve. Valuable for Thanksgiving.  
**MARIE DePETRIS** Nov. 23 S-5  
Intermediate deep yellow incurve.

### 12-WEEK VARIETIES (Pinch August 11)

**YELLOW PETER JOHN** Nov. 25 S-3  
Large light lemon yellow decorative. Intolerant of low temperature. 60° minimum for bud initiation; 55° for bud development.  
**DARK YELLOW CHATTANOOGA** Nov. 25 S-5  
Deep lemon sport.  
**YELLOW CHATTANOOGA** Nov. 25 S-4  
Large light lemon incurve.  
**GOLDEN PEARSON** Nov. 25 S-5  
Intermediate light lemon incurve.

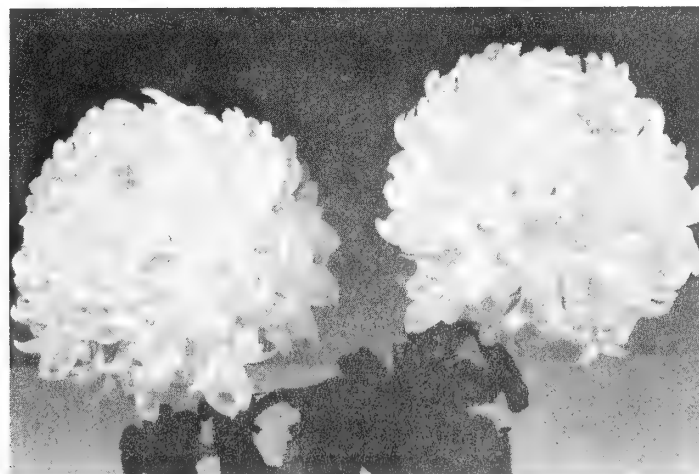
**SUNGOLD** Nov. 25 S-4  
Large lemon yellow incurve. Used in natural pot programs.  
**YELLOW GLORY** Dec. 1 S-4  
Intermediate lemon yellow incurve. Color mutation from December Glory.  
**GOLDEN MRS. ROSS** Dec. 3 S-5  
Large deep lemon incurve.  
**YELLOW MOELLER** Dec. 3 S-2  
Sport of Margaret Moeller. Somewhat smaller and shorter than parent.

### 13-WEEK VARIETIES (Pinch August 18)

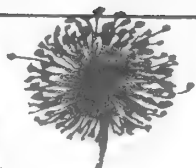
**CHALICE** Dec. 5 S-2  
Large lemon incurve.  
**TOBIN'S YELLOW** Dec. 10 S-6  
Intermediate deep lemon semi-incurve.  
**SMITH'S CREAM WHITE** Dec. 10 S-3  
A beautiful smooth cream colored sport for Smith's White.

**METEORE** Dec. 13 S-5  
Intermediate deep lemon semi-incurve.  
**DAUNTLESS** Dec. 13 S-2  
Small golden yellow semi-incurve.

SEE PRICE LIST ON PAGE 132



Yellow Shoemith



## BRONZE &amp; RED STANDARDS

Variety	Description	Normal Flowering Date	Price
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Variety	Description	Normal Flowering Date	Price
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## 8-WEEK VARIETIES (Pinch July 14)

<b>MAYFORD'S TRIUMPH</b>		<b>Oct. 15</b>	<b>S-3</b>
Large orange bronze decorative. Fast disbuds May and June.			

<b>AMBER BRIGHT</b>		<b>Oct. 15</b>	<b>S-4</b>
Large golden bronze decorative. Fast disbuds April 1-Dec. 1. Fine yellow disbud at high temperatures.			

## 9-WEEK VARIETIES (Pinch July 21)

<b>HILDA BERGEN</b>		<b>Oct. 25</b>	<b>S-3</b>
Small reddish bronze incurve.			
<b>RED GLITTERS</b>		<b>Oct. 28</b>	<b>S-2</b>
Red sport of Glitters.			
<b>ANTIQUE</b>		<b>Nov. 1</b>	<b>S-2</b>
Copper bronze spider with strong stem.			
<b>IVANHOE</b>		<b>Nov. 1</b>	<b>S-4</b>
Small reddish bronze incurve. Fast disbuds Sept. 15-July 1.			
<b>APRICOT QUEEN</b>		<b>Nov. 1</b>	<b>S-2</b>
Large golden orange incurve.			
<b>DETROIT NEWS</b>		<b>Nov. 1</b>	<b>S-8</b>
Large reddish bronze incurve. Finish cool. Best all around bronze standard April and May; Sept. 15-Nov. 1.			
<b>ROYAL BRONZE</b>		<b>Nov. 1</b>	<b>S-5</b>
Intense orange bronze decorative. For pots Sept. 1-Dec. 1.			

<b>DUCHESS</b>		<b>Nov. 1</b>	<b>P</b>
Medium to large bronze spider mum, sometimes called a "Spindle" mum. Duplex form. All petals are straight and tubular. Good flower substance. Maximum growth standards and responsive dependability make this variety an ideal fast disbud from April thru July and mid September thru November. High summer finishing temperatures noticeably dulls color. Duchess along with Luyona, Plum, and John Baumann are beautiful novelties that will contribute to the eventual recognition of the fast disbud as a new mum item.			

<b>FRED YULE</b>		<b>Nov. 3</b>	<b>S-3</b>
Intermediate glowing orange bronze incurved standard. Establishes a new color standard. Has vigor and stretch. Fine addition to the standard and fast disbud crops in May and June also Sept. 1-Dec. 1. Vegetative during the winter months. Promising as a cloth house standard.			

## 10-WEEK VARIETIES (Pinch July 28)

<b>GENA HARWOOD</b>		<b>Nov. 5</b>	<b>S-4</b>
Spider (Bronze Rayonnante).			
<b>NOMAGO</b>		<b>Nov. 5</b>	<b>S-3</b>
Light bronze spider.			
<b>MAMORU</b>		<b>Nov. 5</b>	<b>S-2</b>
Buff copper spider.			
<b>INDIANAPOLIS BRONZE</b>		<b>Nov. 5</b>	<b>S-7</b>
Large incurve. Standard and disbud program Sept. 15-June 15.			
<b>INDIANAPOLIS GOLDEN BRONZE</b>		<b>Nov. 5</b>	<b>S-2</b>
Quilled; incurve.			

<b>INDIANAPOLIS APRICOT</b>		<b>Nov. 5</b>	<b>S-4</b>
Intermediate warm apricot bronze incurve. A more versatile color than its parent Ind. Bronze. Size slightly smaller; habit stronger. Standard and fast disbud Sept. 15-June 1.			
<b>DARK INDIANAPOLIS BRONZE</b>		<b>Nov. 5</b>	<b>S-7</b>
Dark reddish bronze sport. Standard and fast disbud programs Sept. 15-June 15.			
<b>DELAWARE</b>		<b>Nov. 8</b>	<b>S-7</b>
A large reddish bronze semi-incurved standard. Outstanding for pot plants Sept. 1-June 1.			

SEE PRICE LIST ON PAGE 132



Duchess



## BRONZE &amp; RED STANDARDS

Variety	Description	Normal Flowering Date	Price
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Variety	Description	Normal Flowering Date	Price
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## 10-WEEK VARIETIES (Cont'd)

**INCURVED DELAWARE**

Nov. 8 P

Large standard. Tightly incurved form mutation from Delaware. Quite different in appearance from parent variety in that it holds its form and conceals the open center well past maturity. Since only reverse petal color is shown, over-all color is more bronze, less red than a reflexed Delaware. Form provides greater substance. Recommended for pots the year round using SHORT TREATMENT. Becomes slightly shorter and flowers 3-4 days later than parent during the marginally low light intensity periods of mid winter.

**ANN CHEW**

Nov. 10 S-4

Intermediate bronze incurve. Short, West Coast standard.

**BRONZE ORCHID QUEEN**

Nov. 10 S-4

Buff coral bronze sport. Standards. Sept. 15-July 1.

**COPPER QUEEN**

Nov. 10 S-3

Large copper bronze incurve sport of Orchid Queen. Larger flower and more vigorous than Bronze Orchid Queen. Standard programs Sept. 15-July 1.

**MRS. ROY**

Nov. 13 S-6

Large red with copper reverse incurve. Standards Sept. 1-Dec. 1.

**WAIKIKI**

Nov. 13 S-3

Spider. Red bronze tube. Yellow tips.

**GARNET KING**

Nov. 13 S-4

Intermediate deep crimson red reflex.

**BRONZE CALYPSO**

Nov. 8 S-3

Large, rich orange-bronze incurve and very short. Exclusively a pot plant variety April 1-July 1; Sept. 1-Dec. 1. Single pinch. Best results are obtained with high temperature initiation and low temperature development. Flower size and form closely resembles the Indianapolis varieties.

**ANACONDA**

Nov. 8 S-4

Large red bronze incurve.

**DARRYL CHEW**

Nov. 8 S-4

Large decorative standard. Deep reddish bronze. A West Coast variety.

## 11-WEEK VARIETIES (Pinch August 4)

**MRS. EISENHOWER**

Nov. 18 S-3

A vivid golden bronze spider mum with excellent substance and form.

**BALCOMBE PERFECTION**

Nov. 18 S-2

Intermediate incurve. Copper bronze. Short variety benefited by two additional weeks time pinch to shade. Recommend cool finish for maximum perfection of form. Standard programs mid October through November. Very valuable for its natural Thanksgiving season.

**RED BALCOMBE PERFECTION**

Nov. 18 S-2

Intermediate incurve. Bright red with copper bronze reverse. Sport of Balcombe Perfection. Short variety. Suggest two additional long day weeks pinch to shade. Durable with fine substance. Cool finishes develops a tightly incurved form. Standard programs mid October through November. Outstanding for Thanksgiving.

**CALVERT'S GOLD**

Nov. 20 S-5

Intermediate golden bronze semi-incurve. Form and non-fading improve Apricot Queen. Standard and fast disbud Oct. 15-May 1. Pot plants Oct. 1-May 1. Regular and fast crops require one additional long day week.

**BRONZE FRICK**

Nov. 20 S-2

Intermediate salmon bronze incurve.

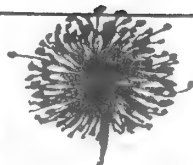
**VALENTINE**

Nov. 20 S-1

Large red disbud decorative. With one additional week pinch to shade Valentine provides fine medium size standards October through April. Significantly valued as an all winter pot plant with tall treatment especially appropriate for Christmas and Valentine's Day. In regular crops, dissprayed to 3-4 flowers, it yields the equivalent of a red Goldsmith. Will initiate and develop buds at 52°.



Valentine



## BRONZE & RED STANDARDS

Variety	Description	Normal Flowering Date	Price	Variety	Description	Normal Flowering Date	Price
<b>12-WEEK VARIETIES (Pinch August 11)</b>							
<b>BRONZE PETER JOHN</b>		<b>Nov. 25</b>	<b>S-3</b>	<b>OAK LEAF</b>		<b>Nov. 25</b>	<b>S-5</b>
Large salmon rust suffused with yellow decorative. Intolerant of low temperature 60° minimum for bud initiation; 55° for bud development.				Intermediate copper incurve.			
<b>GLADYS PEARSON</b>		<b>Nov. 25</b>	<b>S-5</b>	<b>MUTO'S CRIMSON</b>		<b>Dec. 1</b>	<b>S-3</b>
Intermediate light copper bronze incurve.				Intermediate deep crimson incurve. Copper reverse.			

## PINK STANDARDS

<b>8-WEEK VARIETIES (Pinch July 14)</b>							
<b>PINK CHIEF</b>		<b>Oct. 15</b>	<b>S-5</b>	<b>MAJOR BOWES</b>		<b>Oct. 15</b>	<b>S-3</b>
Large lavender incurve. Tall. Excellent in natural season.				Intermediate lavender incurve. Short. Early greenhouse and outdoor disbud.			

<b>9-WEEK VARIETIES (Pinch July 21)</b>							
<b>BLUE RIBBON</b>		<b>Nov. 1</b>	<b>S-3</b>	<b>BUNBU</b>		<b>Nov. 1</b>	<b>S-1</b>
Small bright lavender pink incurve standard. For 60° pot plant programs the year round. Color markedly improves Queen of Pinks especially during high temperature periods. Responds sharply and develops well at 56° with additional stretch. Superb fast disbud March 1-June 1. Best when grown at 56°.				Large, fully double, spooned tip spider. Medium lavender pink color. Tall vigorous habit with rigid stems. Extreme vigor permits the reduction of one long day week from the 9-week schedule. Is a dependable performer in either the standard or fast disbud program from April thru November. Bunbu possesses traits superior to those of Mary Garden and at the same time make a fine companion for Luyona in any program. Often requires some shade protection during the finishing period to prevent petal tip burn.			
<b>MARY GARDEN</b>		<b>Nov. 1</b>	<b>S-4</b>				
A pink spider. Tube.							
<b>QUEEN OF PINKS</b>		<b>Nov. 1</b>	<b>S-7</b>				
Small incurve. Excellent for pots Sept. 1-May 1.							

## 10-WEEK VARIETIES (Pinch July 28)

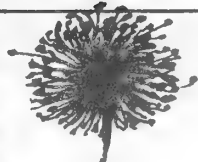
<b>J. W. PRINCE</b>	<b>Nov. 5</b>	<b>S-5</b>	<b>RAYONNANTE</b>	<b>Nov. 5</b>	<b>S-4</b>
Intermediate lavender pink incurve.			Spider. Tube.		

SEE PRICE LIST ON PAGE 132



Bunbu





## PINK STANDARDS

Variety	Description	Normal Flowering Date	Price
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Variety	Description	Normal Flowering Date	Price
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## 10-WEEK VARIETIES (Cont'd)

**INDIANAPOLIS PINK** Nov. 5 S-9  
Large incurve. Tolerates 54°. Standards and fast disbuds Sept. 15-June 15.

**ORCHID QUEEN** Nov. 10 S-5  
Large light orchid pink semi-incurve. Standard Sept. 15-July 1.

**LAVENDER QUEEN** Nov. 10 S-5  
Lavender sport of Orchid Queen. Flowers more compact and color more intense than that of Dark Orchid Queen. Standards Sept. 15-June 15.

**DARK ORCHID QUEEN** Nov. 10 S-6  
Large deep lavender semi-incurve. Standards Sept. 15-June 15.

**LAUGHTER** Nov. 10 S-3  
Intermediate light lavender pink semi-incurved disbud. Comparable to Bluechip for high temperature finishing. Tall growth habit. Performs reliably in both the standard and fast disbud programs the year round. This is the answer to a pink disbud for the summer greenhouse.

**MERRIMENT** Nov. 10 S-2  
Large medium lavender pink decorative disbud. Fast, vigorous growing variety that will tolerate 56° for bud initiation. A worthy supplement to standards and fast disbuds.

**PEGGY HOOVER** Nov. 10 S-2  
Spider. Light pink tube.

**PINK POCKETT** Nov. 10 S-2  
Large lavender pink incurved exhibition.

**PINK YAMANE** Nov. 10 S-4  
Large lavender pink spider.

## 11-WEEK VARIETIES (Pinch August 4)

**ARISTOCRAT** Nov. 15 S-4  
Intermediate lavender incurve. Fast stretch and strong stem. Natural season programs standards and disbuds.

**CALVERT'S PINK** Nov. 17 S-4  
Intermediate orchid pink suffused with salmon incurve. Standard and pot plant programs November and December. Maximum 55° requirement for bud development. Rich color unsurpassed for Thanksgiving season.

**ROSE DELIGHT** Nov. 20 S-4  
Intermediate to small semi-incurve. Lavender rose. Strong vigorous habit well suited to fast disbud and standard programs October through November. A valuable color for Thanksgiving.

**HELEN FRICK** Nov. 20 S-4  
Intermediate light lavender incurve.

**THANKSGIVING PINK** Nov. 23 S-4  
Intermediate orchid pink reflex.

**ED. SEIDEWITZ** Nov. 23 S-4  
Intermediate smooth lavender incurve. Standard and fast disbud Nov. 15-Feb. 1.

## 12-WEEK VARIETIES (Pinch August 11)

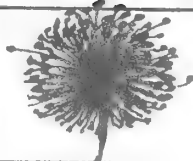
**PINK PETER JOHN** Nov. 25 S-4  
Large light orchid pink decorative. Best size of Peter Johns. Intolerant of low temperature. 60° minimum for bud initiation; 55° for bud development.

**DARK PINK PETER JOHN** Nov. 25 S-4  
Large deep orchid pink decorative.

SEE PRICE LIST ON PAGE 132



Rose Delight



## PINK STANDARDS

Variety	Description	Normal Flowering Date	Price
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Variety	Description	Normal Flowering Date	Price
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### 13-WEEK VARIETIES (Pinch August 18)

#### PINK MISTLETOE

Dec. 5 S-3

Intermediate light pink incurve. Finish cool.



*Larry (See page 95)*



*Echo (See page 95)*

## PRICES

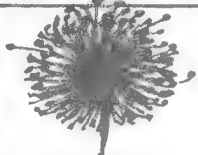
All prices are per 100 cuttings, except the first column on the left. Fifty cuttings are priced per 50.

Price Class	50 only	100-250	300-450	500-950	1000 & up	Price Class	50 only	100-250	300-450	500-950	1000 & up
S-10	3.15	6.00	5.75	5.50	5.25	S-4	3.90	7.50	7.25	7.00	6.75
S-9	3.25	6.25	6.00	5.75	5.50	S-3	4.00	7.75	7.50	7.25	7.00
S-8	3.40	6.50	6.25	6.00	5.75	S-2	4.15	8.00	7.75	7.50	7.25
S-7	3.50	6.75	6.50	6.25	6.00	S-1	4.25	8.25	8.00	7.75	7.50
S-6	3.65	7.00	6.75	6.50	6.25	P	4.50	8.75	8.50	8.25	8.00
S-5	3.75	7.25	7.00	6.75	6.50						

**NEW VARIETIES (BOXED IN THE VARIETY DESCRIPTIVE LIST)  
WILL NOT BE AVAILABLE BEFORE MAY 12, 1958**

Prices subject to change without notice.

See opposite page for prices on Garden Variety Collections.



## New Garden Varieties 1958

### INTRODUCTIONS BY DEPETRIS

### BIG TEN SERIES

#### WHITE

##### MINNESOTA

Oct. 10

Large white incurved pompon. Lends itself well to disbudding and is particularly suitable for spring pot plant culture. (P)

##### MICHIGAN STATE

Oct. 14

Large white decorative pompon ranging 4" in diameter when disbudded. Responds well and makes a beautifully shaped pot plant and garden disbud. (P)

#### YELLOW

##### OHIO STATE

Oct. 15

Large golden cactus decorative. Luxurious dark green foliage. Compact and sturdy grower lending itself well to disbudding or spring pot plant culture. (P)

##### IOWA

Oct. 15

Bright lemon medium incurved. Makes a sturdy compact pot plant, especially useful in the spring months. Quite productive and beautiful as a garden disbud. (P)

##### ILLINOIS

Oct. 5

A large formal golden yellow incurved with excellent substance. A credit to the new spring pot plants and large disbud garden mums. (P)

#### YELLOW—(Cont'd)

##### MICHIGAN

Oct. 12

Large clear yellow blooms fully 4" across. Not a new introduction but was added to the Big 10 Series because of its adaptability to disbudding. (P)

#### BRONZE

##### NORTHWESTERN

Oct. 10

Large full bronze incurved variety with good substance. An unusual early flowering variety of good growth. Makes an ideal football mum. (P)

##### INDIANA

Oct. 10

Large full cactus type, amber bronze in color. A real novelty for the home gardener. Has commercial value for its adaptability as a spring pot plant. (P)

##### PURDUE (H)

Oct. 12

Large full incurving, lively bronze sturdy and compact by nature lending itself beautifully to pot plant culture. Ideally suited for background plantings. (P)

##### WISCONSIN

Oct. 15

A large solid very formal incurved, rich deep apricot, bronze in color. A very healthy grower especially adaptable for cut flower disbuds and garden work. (P)

## Garden Variety Collections

For Growers who are not familiar with Garden Varieties, but who want a well balanced assortment, we offer the following Collections which include the better varieties for each specific purpose.

#### COLLECTION #1

Taller Varieties for cuttings

#### COLLECTION #2

For bedding or borders

#### COLLECTION #3

50% for Cutting  
50% for Bedding

#### COLLECTION #4

For Easter, Mother's Day  
or Memorial Day Pots

#### COLLECTION #5

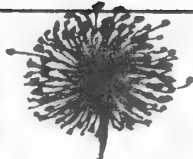
Cushion Varieties only

#### COLLECTION PRICES PER 100

300-450  
6.00

500-950  
5.75

1000 & UP  
5.50



## Garden Varieties

SYMBOLS — (L) Large — (D) Decorative — (P) Pompon — (C) Cushion — (S) Single — (B) Button — (C-F) Carnation Flowered.

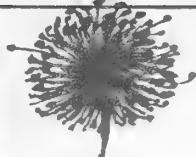
\*Recommended for Mother's Day pot plants.

D Varieties recommended as better when disbudded.

VARIETY	SIZE AND TYPE	COLOR	HEIGHT	MATURES	PRICE
<b>WHITE</b>					
Osage.....	(CD)	White	Med.	Sept. 5	S-3
Candlelight.....	(D)	Ivory	Med.	Sept. 5	S-4
D. Ahrens.....	(D)	White	Tall	Sept. 10	S-3
Paper White.....	(D)	White	Med.	Sept. 10	S-5
*Crystal Maid.....	(D)	Cream	Short	Sept. 12	S-3
*Chris Columbus.....	(LD)	Cream	Tall	Sept. 15	S-6
White Cushion.....	(CD)	White	Short	Sept. 15	S-7
Gloria.....	(DP)	White	Med.	Sept. 15	S-3
*Calcite.....	(D)	Cream	Med.	Sept. 15	S-5
Powderpuff (Cushion)....	(CD)	White	Short	Sept. 15	S-5
Polar Ice.....	(LD)	White	Med.	Sept. 15	S-4
*White Bounty.....	(B)	White	Tall	Sept. 15	S-6
D White Tower.....	(LP)	Cream	Tall	Sept. 15	S-4
Benora.....	(CD)	White	Short	Sept. 20	S-3
White Sail.....	(LD)	White	Med.	Sept. 23	P
Jessamine Williams.....	(Spoon)	White	Med.	Sept. 25	S-2
White Wonder.....	(LP)	Ivory	Med.	Sept. 25	S-4
*Shalimar (H).....	(LP)	Cream	Med.	Sept. 25	S-4
Theresa Stone.....	(P)	Ivory	Med.	Sept. 25	S-2
White Rice.....	(LP)	White	Short	Sept. 25	S-4
*Ostosa.....	(CP)	White	Short	Sept. 25	S-3
White Cloud.....	(D)	White	Tall	Sept. 25	S-3
North Star.....	(S)	White	Med.	Sept. 28	S-4
*Pepita.....	(B)	White	Med.	Sept. 28	S-4
Spindrift.....	(D)	White	Med.	Oct. 1	S-3
Gardenia.....	(LD)	White	Med.	Oct. 1	S-5
*Marshmallow.....	(M-Sgl)	White	Med.	Oct. 5	S-2
Limelight.....	(P)	White	Med.	Oct. 5	S-3
*Lyric.....	(CS)	White	Short	Oct. 5	S-3
Avalanche.....	(LD)	Cream	Tall	Oct. 5	S-2
*Horizon.....	(P)	White	Med.	Oct. 5	S-4
D Ivory Glow.....	(D)	White	Med.	Oct. 5	S-5
*Classic.....	(B)	White	Tall	Oct. 10	S-3
*Minnesota (New).....	(LP)	White	Med.	Oct. 10	P
*Maestro.....	(CP)	White	Short	Oct. 10	S-2
Albion (New).....	(LD)	White	Med.	Oct. 10	S-1
White Masquerade.....	(B)	White	Med.	Oct. 10	P
White Spoon.....	(Spoon)	White	Med.	Oct. 10	S-4
*Silverplate.....	(D)	White	Med.	Oct. 12	S-3
Michigan State (New)...	(LD)	White	Med.	Oct. 14	P
Silver Ball.....	(P)	White	Tall	Oct. 15	S-6
Irene.....	(B)	White	Med.	Oct. 15	S-2
*Pilgrim.....	(P)	White	Med.	Oct. 15	S-2
Blizzard.....	(P)	White	Med.	Oct. 15	S-4

## YELLOW

Pathfinder.....	(C-F)	Lemon	Med.	Aug. 28	S-3
Reverence.....	(LD)	Chamois Yel.	Short	Sept. 1	S-2
*Early Gold.....	(P)	Golden	Short	Sept. 5	S-1
Golden Hours.....	(P)	Chrome Yel.	Med.	Sept. 8	S-6
Delight (H).....	(P)	Golden	Med.	Sept. 8	S-3
Genista.....	(C)	Canary	Med.	Sept. 12	S-3
Sunapee.....	(P)	Lemon Yel.	Tall	Sept. 15	S-5
*Pomponette.....	(P)	Golden	Short	Sept. 15	S-6
Yellow Cushion.....	(CD)	Light Yel.	Short	Sept. 15	S-7
Golden Cushion.....	(C)	Golden Yel.	Short	Sept. 15	S-7
Defiance (H).....	(D)	Golden Yel.	Tall	Sept. 15	S-3
*Yellow Chris Columbus...	(LD)	Brt. Lemon	Med.	Sept. 15	S-6
Muriel Rice.....	(LD)	Lemon Yel.	Med.	Sept. 15	S-2
*Early Yellow.....	(B)	Dp. Lemon	Short	Sept. 15	S-5



## Garden Varieties

VARIETY	SIZE AND TYPE	COLOR	HEIGHT	MATURES	PRICE
<b>YELLOW (Cont'd)</b>					
Golden Carpet.....	(CP)	Golden	Short	Sept. 15	S-4
*D Ming.....	(P)	Orange Yel.	Med.	Sept. 18	S-2
Golden Gopher.....	(D)	Orange Yel.	Med.	Sept. 20	S-1
*Sept. Sunshine.....	(S)	Br. Lemon	Med.	Sept. 20	S-6
*Aglow.....	(P)	Orange	Med.	Sept. 20	S-2
Real Gold.....	(LD)	Golden Yel.	Med.	Sept. 20	S-3
Wychwood.....	(LP)	Canary	Med.	Sept. 20	S-6
Canary Wonder.....	(P)	Canary	Med.	Sept. 25	S-4
Golden Wonder.....	(P)	Golden	Med.	Sept. 25	S-4
Chas. Nye.....	(LP)	Dp. Lemon	Tall	Sept. 25	S-4
September Gold.....	(C)	Lemon Yel.	Short	Sept. 25	S-5
Golden Sunset.....	(LD)	Copper Gold	Med.	Sept. 25	S-4
*Honeycomb.....	(P)	Golden	Med.	Sept. 25	S-3
*Moonlight.....	(D)	Br. Yellow	Med.	Sept. 25	S-2
Lee Powell.....	(LD)	Chinese Yel.	Tall	Sept. 25	S-2
Sulphur Spoon.....	(Spoon)	Lemon Yel.	Med.	Sept. 25	S-3
Tangerine.....	(LD)	Dp. Orange	Med.	Sept. 25	S-4
Astoria.....	(P)	Deep Lemon	Med.	Sept. 28	S-3
Yellow Supreme (H).....	(C)	Br. Lemon	Short	Sept. 28	S-7
Ruby Breihaupt (New)...	(LD)	Primrose Yellow	Med.	Oct. 1	P
*Kings Ransom (New).....	(D)	Gold. Yellow	Med.	Oct. 1	P
Freya.....	(LD)	Golden Yel.	Med.	Oct. 1	S-2
Tranquility.....	(D)	Lt. Lemon	Med.	Oct. 1	S-3
*Chiquita.....	(B)	Dp. Lemon	Med.	Oct. 1	S-3
Ethel Waters.....	(LD)	Lemon	Med.	Oct. 5	S-2
James Eadie.....	(LP)	Dp. Chrome	Med.	Oct. 5	S-4
Newton.....	(LD)	Golden Yel.	Med.	Oct. 5	S-1
*Roulette.....	(LD)	Bright Yel.	Short	Oct. 5	S-2
Yellow Avalanche.....	(LD)	Lt. Lemon	Tall	Oct. 5	S-2
*Illinois (New).....	(LD)	Br. Golden	Med.	Oct. 5	P
Polaris.....	(S)	Golden Buff	Med.	Oct. 5	S-2
*D Mrs. Rotan.....	(LD)	Dp. Chrome	Med.	Oct. 5	S-3
Sunstone.....	(Spoon)	Lt. Yellow	Tall	Oct. 8	S-3
*Spode.....	(L-Inc.)	Lemon	Short	Oct. 8	S-3
*Yellow Spoon.....	(Spoon)	Lt. Yellow	Med.	Oct. 10	S-3
Treasure.....	(P)	Golden	Tall	Oct. 10	S-3
Golden Spoon.....	(Spoon)	Golden	Med.	Oct. 10	S-4
*Yellow Blanket.....	(B)	Br. Lemon	Med.	Oct. 10	S-6
Bright Forecast.....	(P)	Br. Lemon	Med.	Oct. 10	S-4
*Goldrush.....	(S)	Lemon	Med.	Oct. 10	S-2
Yellow Calumet.....	(P)	Lemon Yellow	Med.	Oct. 10	P
Arlora.....	(LD)	Lemon	Med.	Oct. 10	S-3
Sweepstake.....	(P)	Lemon	Med.	Oct. 12	S-3
Goldfield.....	(P)	Yellow	Med.	Oct. 12	S-1
Moonbright.....	(LD)	Lt. Yellow	Med.	Oct. 12	S-3
Michigan.....	(LD)	Yellow	Med.	Oct. 12	P
Sunburst.....	(LD)	Golden Yel.	Med.	Oct. 12	S-3
*Gold Lode.....	(L-Inc.)	Golden	Med.	Oct. 15	S-3
Judith Anderson.....	(B)	Golden Yel.	Med.	Oct. 15	S-5
Rodell Imp.....	(B)	Lt. Lemon	Med.	Oct. 15	S-6
Yellow Irene.....	(B)	Lt. Lemon	Med.	Oct. 15	S-2
Buttercup (H).....	(L-Inc.)	Golden	Short	Oct. 15	S-2
*Valiant.....	(L-Inc.)	Lt. Golden	Med.	Oct. 15	S-3
*Honeysweet.....	(L-Inc.)	Golden Yel.	Med.	Oct. 15	S-3
Sarasota.....	(P)	Br. Lemon	Med.	Oct. 15	S-3
*Ohio State (H) (New).....	(Cactus)	Golden Yellow	Med.	Oct. 15	P
*Iowa (New).....	(LP)	Lemon Yellow	Med.	Oct. 15	P

## BRONZE and RED

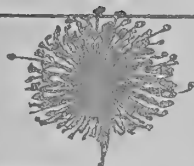
Glow Worm.....	(D)	Or. Scarlet	Short	Sept. 8	S-3
Early Harvest.....	(CD)	Mah. Orange	Short	Sept. 8	S-1
Harbinger.....	(D)	Golden Br.	Short	Sept. 8	S-2
*W. P. Snyder.....	(LP)	Apr. Orange	Med.	Sept. 10	S-3





## Garden Varieties

VARIETY	SIZE AND TYPE	COLOR	HEIGHT	MATURES	PRICE
<b>BRONZE and RED (Cont'd)</b>					
Autumn Song.....	(D)	Wine Rose	Med.	Sept. 10	S-5
Geo. Luxton.....	(LD)	Light Br.	Med.	Sept. 12	S-3
Bronze Pomponette.....	(P)	Golden Br.	Short	Sept. 15	S-1
Early Crimson.....	(D)	Bright Crim.	Med.	Sept. 15	S-4
Apache.....	(LD)	Red & Gold	Med.	Sept. 15	S-3
Early Bronze.....	(B)	Orange Br.	Short	Sept. 15	S-5
Red Gold.....	(B)	Red & Gold	Med.	Sept. 15	S-4
New Marjorie Mills.....	(LP)	Ruby Red	Short	Sept. 15	S-1
Dark Red Gold.....	(B)	Dark Red	Med.	Sept. 15	S-4
Companion.....	(D)	Golden Bronze	Med.	Sept. 15	S-2
Chippa Red.....	(LD)	Maroon Red	Med.	Sept. 15	S-4
Flamboyant.....	(D)	Orange Br.	Med.	Sept. 15	S-3
Early Kathleen.....	(D)	Coppery Br.	Med.	Sept. 15	S-2
Autumn Beauty.....	(D)	Chestnut Red	Med.	Sept. 15	S-3
September Bronze.....	(B)	Golden Br.	Med.	Sept. 20	S-5
*Toronto.....	(C)	Bronze	Short	Sept. 20	S-2
*Bronze Queen (H).....	(C)	Copper Br.	Short	Sept. 20	S-3
Red Glow.....	(P)	Dark Red	Med.	Sept. 20	S-4
*Orsona.....	(C)	Red & Bronze	Med.	Sept. 20	S-3
Scarlet Crimson.....	(D)	Brt. Red	Med.	Sept. 20	S-4
Mme. Cadillac.....	(P)	Rasp. Wine	Short	Sept. 20	S-4
Rouge Cushion.....	(C)	Brt. Red	Short	Sept. 25	S-4
Br. Wonder.....	(P)	Rosewood	Med.	Sept. 25	S-4
Plainsman.....	(D)	Orange Bronze	Med.	Sept. 25	S-3
Crown Jewell.....	(D)	Bright Red	Short	Sept. 25	S-3
Champion Cushion.....	(CD)	Dp. Bronze	Short	Sept. 25	S-7
Commander Cushion.....	(CD)	Red	Short	Sept. 25	S-7
Alpena.....	(D)	Red	Med.	Sept. 25	S-3
Mahogany Cushion.....	(CD)	Jasper Rd.	Short	Sept. 25	S-7
Elite Cushion.....	(C)	Salmon Br.	Short	Sept. 25	S-7
Holiday (H).....	(P)	Golden Br.	Med.	Sept. 25	S-3
Football Bronze.....	(D)	Bronze Buff	Tall	Sept. 25	S-2
Coppersmith.....	(D)	Copper Bronze	Med.	Sept. 25	S-2
Mojave Gold.....	(LD)	Golden Br.	Med.	Sept. 25	P
Crowning Glory.....	(D)	Coral Bronze	Med.	Sept. 25	S-3
Admiration.....	(LD)	Salmon Fawn	Med.	Sept. 28	S-5
*Remembrance.....	(LD)	Dp. Carmine	Med.	Sept. 28	S-5
Lipstick.....	(C)	Ruby Orange	Short	Sept. 28	S-1
Kath. Lehman.....	(LD)	Orange Br.	Med.	Sept. 28	S-3
Morocco.....	(D)	Reddish Br.	Short	Oct. 1	S-2
*Caprice.....	(D)	Apricot Br.	Med.	Oct. 1	S-2
*Iron Mountain.....	(P)	Deep Red	Med.	Oct. 1	S-4
Jubilee (H).....	(P)	Crimson	Med.	Oct. 1	S-3
Fiesta.....	(P)	Orange Rust	Tall	Oct. 1	S-4
Red Cloud (Cushion).....	(CD)	Scarlet	Med.	Oct. 1	S-6
Red Riding Hood.....	(D)	Brt. Red	Med.	Oct. 1	S-4
Sam Williston (Cushion).....	(CS)	Deep Red	Short	Oct. 1	S-7
Leshara.....	(D)	Mulberry Red	Med.	Oct. 1	S-5
Bonfire.....	(D)	Brt. Red	Med.	Oct. 1	S-2
Fire Engine.....	(S)	Flaming Red	Med.	Oct. 1	S-5
Card. Spoon.....	(Spoon)	Red Bronze	Med.	Oct. 1	S-2
Firecracker.....	(D)	Mahogany	Tall	Oct. 5	S-2
Cydonia.....	(LD)	Mahogany	Tall	Oct. 5	S-5
*September Cheer.....	(S)	Cherry Red	Med.	Oct. 5	S-6
Burgundy.....	(LD)	Wine Red	Tall	Oct. 5	S-5
Ruby Pompon.....	(P)	Ruby Crimson	Med.	Oct. 5	S-5
Red Velvet.....	(LD)	Dk. Crimson	Med.	Oct. 5	S-2
*Mona.....	(P)	Rust Bronze	Med.	Oct. 5	S-3
Courageous.....	(LD)	Dark Ruby	Med.	Oct. 5	S-5
*Mrs. Du Pont.....	(LD)	Coral Buff	Tall	Oct. 5	S-2
Indian Red.....	(D)	Indian Rust	Med.	Oct. 5	S-2
Andante.....	(D)	Peach Apricot	Tall	Oct. 8	P
Aviator.....	(P)	Copper	Med.	Oct. 8	S-3
Success.....	(LP)	Dp. Crimson	Med.	Oct. 8	S-3
Gladiator.....	(D)	Orange Red	Tall	Oct. 10	S-2
*D Calumet (H).....	(D)	Apricot	Med.	Oct. 10	S-3

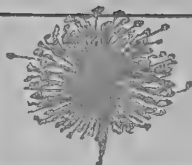


## Garden Varieties

VARIETY	SIZE AND TYPE	COLOR	HEIGHT	MATURES	PRICE
<b>BRONZE and RED (Cont'd)</b>					
*D Dark Calumet (H).....	(LD)	Golden Br.	Med.	Oct. 10	P
Northwestern (New).....	(LD)	Reddish Br.	Med.	Oct. 10	P
Indiana (New).....	(Cactus)	Bronze	Med.	Oct. 10	P
Huntsman.....	(LP)	Scarlet Or.	Tall	Oct. 10	S-2
Carnival.....	(LP)	Burnt Orange	Med.	Oct. 10	S-3
Orangeade.....	(S)	Orange Bronze	Med.	Oct. 10	S-2
Dolle-Ette.....	(S)	Golden Bronze	Short	Oct. 10	S-2
Carmine Queen.....	(LP)	Carmine	Tall	Oct. 10	S-2
Admiral.....	(D)	Dark Red	Med.	Oct. 12	S-3
Purdue (New).....	(LD)	Med. Bronze	Med.	Oct. 12	P
Crusader.....	(D)	Crimson Red	Med.	Oct. 12	S-2
*James Stewart.....	(P)	Apr. Gold	Tall	Oct. 15	S-3
Rajah.....	(S)	Scarlet	Tall	Oct. 15	S-2
Chopin.....	(L-Inc.)	Lt. Bronze	Med.	Oct. 15	S-2
*Radiance.....	(D)	Red	Med.	Oct. 15	S-3
Helma.....	(D)	Red	Med.	Oct. 15	P
*Majestic (New).....	(LP)	Rosewood Br.	Med.	Oct. 15	P
Red Enterprise.....	(P)	Rose Red	Tall	Oct. 15	P
Wisconsin (New).....	(CF)	Apricot Br.	Med.	Oct. 15	P
Resolute.....	(LD)	Bright Red	Short	Oct. 18	P
Lee-ette.....	(Spid.)	Silver Bronze	Short	Oct. 23	P

## PINK and LAVENDER

Gladness.....	(D)	Chinese Rose	Short	Aug. 28	S-3
Cecil Beed.....	(D)	Deep Lav.	Med.	Sept. 1	S-5
Sal. Precose.....	(LD)	Salmon Pk.	Short	Sept. 1	S-4
Amelia.....	(C)	Lav. Pink	Short	Sept. 5	S-7
Rosa.....	(C)	Rose Pink	Med.	Sept. 5	S-5
Dean Kay.....	(C)	Shell Pink	Short	Sept. 5	S-7
Purple Star.....	(P)	Purple	Med.	Sept. 5	S-5
*Joan Helen.....	(D)	Dk. Purple	Med.	Sept. 10	S-5
Nye's Favorite.....	(D)	Lavender	Med.	Sept. 10	S-5
Barbara Small.....	(P)	Lavender	Tall	Sept. 10	S-3
*Orchid Helen.....	(D)	Orch. Lavender	Med.	Sept. 10	S-3
Successor.....	(D)	Sil. Lav.	Med.	Sept. 10	S-3
Lorenzo.....	(Spoon)	Dark Purple	Med.	Sept. 15	S-3
Royal Robe.....	(D)	Purple	Med.	Sept. 15	S-3
Chippewa.....	(LD)	Br. Purple	Med.	Sept. 15	S-4
Violet.....	(D)	Bright Purple	Med.	Sept. 15	S-6
*Purple Queen.....	(P)	Dk. Purple	Short	Sept. 20	S-3
Purple Spoon.....	(Spoon)	Soft Purple	Med.	Sept. 20	S-3
Purple Waters.....	(D)	Deep Purple	Med.	Sept. 20	S-3
Tapestry.....	(LD)	Br. Pink	Med.	Sept. 20	S-4
Heather Bloom.....	(D)	Heather Pk.	Med.	Sept. 20	S-5
*Alert.....	(LD)	Dk. Purple	Med.	Sept. 20	S-5
*Blanche Litwiller.....	(LP)	Lav. Pink	Med.	Sept. 23	P
Pink Quill.....	(LD)	Shell Pink	Med.	Sept. 25	P
Olive Longland.....	(LD)	Apr. Salmon	Med.	Sept. 25	S-6
Evangeline.....	(LD)	Flesh Pink	Med.	Sept. 25	S-3
Jeweltone.....	(P)	Rose Pink	Short	Sept. 25	S-3
Lady's Choice.....	(LD)	Ivory Pink	Med.	Sept. 25	S-3
Reflection.....	(D)	Rosy Lavender	Med.	Sept. 25	S-2
*Petrisian Rose.....	(P)	Lav. Rose	Med.	Sept. 25	S-4
*Cecelia.....	(C)	Purple	Short	Sept. 25	S-7
Imp. E. Wonder.....	(P)	Lavender	Med.	Sept. 25	S-4
*Spellbound.....	(D)	Lavender	Med.	Sept. 25	S-6
Capt. J. Smith.....	(C)	Lav. Pink	Short	Sept. 25	S-7
*Major Cushion.....	(C)	Lavender	Short	Sept. 25	S-7
Coquette.....	(C)	Rosy Pink	Short	Sept. 25	S-2
Evelyn Devaney.....	(D)	Shell Pink	Med.	Sept. 25	S-3
Purple Cushion.....	(C)	Deep Purple	Short	Sept. 25	S-5
Edna Rowley.....	(B)	Lav. Pink	Med.	Sept. 26	P
Stylist.....	(Cactus)	Old Rose	Med.	Sept. 28	P
Tuneful.....	(LD)	Rose Pink	Tall	Sept. 28	S-3



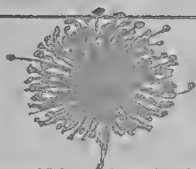
## Garden Varieties

VARIETY	SIZE AND TYPE	COLOR	HEIGHT	MATURES	PRICE
<b>PINK and LAVENDER (Cont'd)</b>					
Rosita.....	(B)	Lav. Rose	Med.	Sept. 28	S-5
Joyous.....	(C)	Rosy Pink	Short	Sept. 28	S-3
Malinda Brown.....	(P)	Lav. Rose	Med.	Sept. 28	S-3
Betty.....	(LD)	Pk. Rose Ctr.	Tall	Sept. 28	S-5
Twinkle.....	(C)	Rose Purple	Med.	Sept. 28	S-5
Pat. Lehman.....	(D)	Peach Pink	Tall	Sept. 28	S-3
Aristocrat (H).....	(LD)	Deep Wine	Med.	Sept. 28	S-2
Artist's Delight.....	(D)	Coral Pink	Med.	Sept. 29	P
Fascination.....	(LD)	Lav. Pink	Med.	Oct. 1	S-3
Troubadour.....	(D)	Crimson	Med.	Oct. 1	S-4
Tiffany Rose.....	(S)	Deep Rose	Med.	Oct. 1	S-6
Old Lavendar.....	(LD)	Lavender	Med.	Oct. 1	S-2
Sonny.....	(P)	Deep Lav.	Med.	Oct. 1	S-5
Mayflower.....	(P)	Soft Pink	Med.	Oct. 1	S-3
Helen Bogue.....	(LD)	Rose Purple	Tall	Oct. 1	P
*Mischief.....	(CS)	Purple	Short	Oct. 1	S-4
Charm Spoon.....	(Spoon)	Rose	Med.	Oct. 1	S-3
Alex Cummings.....	(LD)	Deep Rose	Tall	Oct. 3	S-2
Northern Queen.....	(D)	Lavender	Med.	Oct. 5	S-2
*Petrisian Pink.....	(D)	Lt. Pink	Med.	Oct. 5	S-4
*Lavender Lady.....	(D)	Lav. Pk.	Tall	Oct. 5	S-3
Dream Girl.....	(P)	Lt. Lav.	Med.	Oct. 10	S-2
*Courtier.....	(D)	Lav. Pk.	Med.	Oct. 10	S-4
*Time.....	(LP)	Lav.	Med.	Oct. 10	S-4
*Orchid Spoon.....	(Spoon)	Orch. Lav.	Med.	Oct. 10	S-5
Rose Spoon.....	(Spoon)	Lav. Rose	Med.	Oct. 10	S-4
Lassie.....	(LD)	Dk. Pink	Med.	Oct. 10	S-3
*Masquerade.....	(C)	Lav. Rose	Med.	Oct. 10	S-4
*Joybringer.....	(D)	Salmon Rose	Short	Oct. 10	S-4
Ronnie.....	(B)	Dk. Lav.	Med.	Oct. 12	S-3
Allegro.....	(C)	Shrimp Pk.	Med.	Oct. 12	S-3
Adagio.....	(P)	Raspberry Rose	Tall	Oct. 12	S-3
Coralhue.....	(P)	Apricot Coral	Short	Oct. 12	S-2
Tifania.....	(LD)	Raspberry Rose	Tall	Oct. 12	S-1
Fuchsia Fairy.....	(D)	Light Pink	Short	Oct. 14	S-2
*Cupid.....	(D)	Pink	Med.	Oct. 15	S-2
*Jewell.....	(P)	Lav. Pk.	Med.	Oct. 15	S-3
Enterprise.....	(P)	Amaranth	Tall	Oct. 15	S-2
Lt. Pink Enterprise.....	(P)	Light Pk.	Tall	Oct. 15	P
Elizabeth Hood.....	(LP)	Lav. Pk.	Med.	Oct. 15	S-3
Citation.....	(LP)	Deep Pink	Med.	Oct. 15	S-2

SEE PRICE LIST ON PAGE 132

### PINCHING SCHEDULE FOR GARDEN CHRYSANTHEMUMS

Natural Flowering Date	Pinching Date for Cut Flowers	Pinching Date for Border Plants
Sept. 1	June 9	July 7
Sept. 15	June 16	July 14
Sept. 30	June 23	July 21
Oct. 10	June 30	July 28
Oct. 15	July 7	Aug. 4



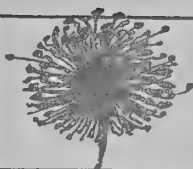
# Index of Varieties

A	Bright Forecast 102, 135	Chas. Nye 102, 135	Dark Norma 119	Enterprise 115, 138
Acclaim 100	Brighton Yellow 125	Chattanooga 124	Dark Orchid Queen 131	Ermine 99
Adagio 138	Brilliance 103	Cheerful 119	Dark L. I. Beauty 120	Esquire 105
Admiral 137	Bronze Buckingham 111	Chevron 112	Dark Pink 117	Etheldra 116
Admiration 136	Bronze Calypso 129	Chippa Red 136	Buckingham 117	Ethel Waters 135
Aglow 109, 135	Bronze Chip 111	Chippewa 137	Dark Pink Minstrel 122	Etude 106
Alaska 96	Bronze Daisy 111	Chiquita 102, 135	Dark Pink Peter 131	Evangeline 137
Albatross 123	Bronze Dot 110	Chopin 137	John 131	Evelyn Deveney 137
Albion 134	Bronze Enchantress 114	Christina 122	Dark Pink Pandora 118	F
Alert 115, 137	Bronze Frick 129	Christmas Greeting 115	Dark Portrait 117	Falcon 114
Alex Cummings 138	Bronze Goldsmith 113	Christmas Star 114	Dark Red Gold 136	Fanfare 105
Allegro 138	Bronze Jubilation 113	Chris. Columbus 95, 134	Dark Taffeta 119	Fascination 138
Almega 120	Bronze Masterpiece 112	Cinderella 107	Dark Valencia 121	Feathertop 97
Alpena 136	Bronze Minstrel 114	Citation 115, 138	Dark Yellow 127	Festival 113
Alvoda 122	Bronze Minuet 113	Claret 115	Chattanooga 127	Fiesta 136
Ambassador 123	Br. Orchid 129-136	Classic 95, 134	Dark Yellow 107	Firebird 110
Amber Bright 128	Queen 129-136	Climax 112	Satellite 129	Firecracker 136
Amberhue 112	Bronze Pandora 112	Commander Cushion 136	Darryl Chew 127	Fire Engine 136
Amelia 137	Bronze Peter John 130	Companion 136	Dauntless 137	Firefly 111
Anaconda 129	Bronze Portrait 112	Constellation 104	Daybreak 114	Flamboyant 136
Andante 110, 136	Bronze Pomponette 136	Copperhead 112	Dean Kay 137	Flame Minstrel 114
Ann Chew 129	Bronze Queen 136	Copper Smith 136	Debonair 114	Football Bronze 136
Antique 128	Bronze Riviera 115	Copper Queen 129	Debutante 121	Forever Amber 113
Apache 136	Bronze Wonder 136	Coquette 137	December Glory 124	Fortune 100
Apricot Queen 128	Buccaneer 111	Coralhue 109, 138	December Gold 108	Forty-Niner 106
Apricot Valencia 114	Buckskin 110	Cordova 100	December White 124	Fred Shoesmith 124
Arcadia 96	Bunbu 130	Coronation 107	Dee-Dee Ahrens 134	Fred Yule 128
Argyle 121	Burgundy 136	Corsair 108	Defiance (H) 134	Freedom 97
Aristocrat 131	Butterball 125	Cotillion 100	Defiance 122	Freya 135
Aristocrat (H) 138	Buttercup (H) 135	Courageous 136	Delaware 128	Friendly Rival 127
Arlora 135	Butterscotch 111	Cover girl 138	Delight 117	Fuchsia Fairy 115, 138
Artist's Delight 138		Crackerjack 114	Delight (H) 134	G
Astoria 102, 135	C	Cream Mefo 126	Delmar 121	Gaiety 110
Autumn Beauty 136	Cadenza 118	Cream Shasta 105	Desire 121	Gail 116
Autumn Song 136	Calcite 134	Crescendo 104	Detroit News 128	Galaxy 114
Avalanche 95, 135	Calif. Wh. Daisy 95	Crest 96	Dolli-ette 109, 137	Gardenia 95, 134
Aviator 136	Calumet (H) 136	Crimson Valencia 114	Dolomite 101	Garnet King 129
Aztec 104	Calumet 109	Criterion 118	Dorothy Hyde 110	Garza 101
B	Calumet 109	Crown Jewell 136	Dream Girl 138	Gena Harwood 128
Balcomb's Perfection 129	Calverts Gold 129	Crowning glory 136	Dubonnet Valencia 121	Genista 134
Barbara Fuller 111	Calverts Pink 131	Crusader 137	Dutchess 128	Geo. Luxton 136
Barbara Small 137	Cameo 100	Crystal Beauty 99	Dynamo 98	Georgia 125
Barcarole 104	Camille Baumann 97	Crystal Maid 134	E	Giltglow 112
Bayonne 110	Canary Wonder 135	Crystal Queen 124	Early Bronze 136	Ginger 111
Beauregard 111	Candlelight 134	Crystallite 96	Early Crimson 136	Gt. Betsy Ross 123
Beauregard 113	Candytuft 115	Cupid 115, 138	Early Gold 134	Gladiator 136
Supreme 113	Caprice 136	Cydonia 136	Early Harvest 135	Gladness 137
Beautiful Lady 121	Capt. John Smith 137	D	Early Kathleen 136	Gladys Pearson 130
Belray 99	Cardinal Spoon 136	Dandy 103	Early Yellow 134	Glamour 116
Benora 95, 134	Carmine Queen 109, 137	Dark Almego 120	Early Yel. Daisy 103	Gloria 134
Betty 138	Carnival 109, 137	Dark Beauregard 111	Edna Rowley 137	Glow Worm 135
Betty Rose 116	Carolyn Yosick 116	Dark Br. 112	Ed. Seidewitz 131	Goldball 106
Bittersweet 112	Carrara 99	Masterpiece 114	Echo 95	Gold Coast 103
Blazing Gold 125	Cecelia 137	Dark Br. Minstrel 118	Elegance 136	Goldfield 135
Blizzard 95, 134	Celebrity 120	Dark Buckley 117	Elite Cushion 138	Gold Lace 125
Bluechip 116	Celestra 125	Dark Calumet 137	Elizabeth Hood 115, 121	Gold Lode 125, 135
Blue Ribbon 130	Cecil Beed 137	Dark Chip 117	Empress 121	Goldfinch 103
Bojangles 106	Chairman 126	Dark Enchantress 128	Eminence 121	Goldrush 102, 135
Bonnaffon Deluxe 127	Chalice 127	Dark Ind. Bronze 126	Enchantress 97	Golden Acclaim 107
Bonfire 136	Chalk Cliff 98	Dark Ind. Yellow 119	Encore 98	Golden Anniversary 108
Bonnie 118	Champ 100	Dark Linda Lou 119	Ensign 98	
Briaradon 104	Champion Cushion 136			
	Charm Spoon 138			

# Index of Varieties

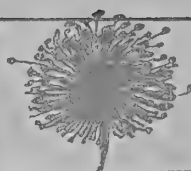
Golden Carpet .....	135	Illini Cascade .....	102	Jewelltone .....	137	Marketeer .....	124	Nuggets .....	104
Golden Chord .....	106	Illini Formal .....	120	Joan Helen .....	137	Marshmallow .....	134	Nye's Favorite .....	137
Golden Cushion .....	134	Illini Gold .....	107	John Baumann .....	99	Mary Garden .....	130		
Golden Elegance .....	108	Illini Glacier .....	100	Joybringer .....	115-138	Mary L. Hall .....	104		
Golden Gopher .....	135	Illini Goldilocks .....	106	Joyous .....	138	Mary McArthur .....	116		
Golden Hours .....	134	Illini Igloo .....	98	Jubilation .....	119	Masquerade .....	138		
Golden Mrs. Ross .....	127	Illini Peace .....	100	Jubilee (H) .....	136	Masterpiece .....	119		
Golden Pearson .....	127	Illini Redwood .....	113	Judith Anderson .....	135	Mayfair .....	115	Oak Leaf .....	130
Goldenrod .....	107	Illini Roseglow .....	121	J. W. Prince .....	130	Mayfords Triumph .....	128	Ohio State .....	133-135
Golden Shoemsmith .....	126	Illini Snowbound .....	102			Mayflower .....	138	Old Lavender .....	138
Golden Snowbound .....	108	Illini Snowdrift .....	98			Medallion .....	122	Olive Longland .....	137
Golden Spoon .....	135	Illini Springtime .....	119			Mefo .....	124	Olnura .....	112
Golden Sunset .....	135	Illini Starflower .....	99			Memento .....	96	Omega .....	101
Golden Wonder .....	135	Illini Starlet .....	101			Memorial .....	119	Orangeade .....	137
Goldsmith .....	107	Illini Sunspot .....	106			Mermaid .....	117	Orange Beauregard .....	111
Gondola .....	103	Illini Wampum .....	107			Merriment .....	131	Orange Galaxy .....	114
Good News .....	125	Illini Warpaint .....	113			Merrymaker .....	115	Orchid Helen .....	137
Gordon Wells .....	126	Illini Warrior .....	113			Meteore .....	127	Orchid Queen .....	131
Grand Slam .....	120	Illini Yellow .....				Michigan .....	133-135	Orchid Spoon .....	138
Granite State .....	123	Snowbound .....	108			Michigan State .....	133-134	Orchid Valencia .....	121
Grecos Carnation .....	99	Illinois .....	133-135			Ming .....	135	Oregon .....	123
		Imp. Br. Daisy .....	111			Minnesota .....	133-134	Orsona .....	136
		Imp. Br. Supreme .....	114			Minstrel .....	122	Orway .....	101
		Imp. Dk. Supreme .....	122			Minuet .....	120	Osage .....	134
		Imp. Early Wonder .....	137			Mirth .....	116	Ostosa .....	95-134
		Imp. Ind. White .....	123			Mme. Cadillac .....	136		
		Imp. Ind. Yellow .....	126			Mischief .....	115-138		
		Imp. Pink Minstrel .....	122			Mojave Gold .....	136		
		Imp. Red Daisy .....	111			Mona .....	109-136		
		Imp. Yel. Rayonante .....	126			Monarch .....	100		
		Imp. Yellow .....				Monty .....	96		
		Supreme .....	107			Monument .....	124		
		Imp. White .....				Moonbright .....	135		
		Supreme .....				Moonglow .....	98		
		Inca .....	112			Moonlight .....	102-135		
		Indiana Mkt. .....	124			Moontide .....	123		
		Ind. Apricot .....	128			Morocco .....	109-136		
		Ind. Bronze .....	128			Mrs. Dewey .....	113		
		Ind. Gold .....	126			Mrs. DuPont .....	109-136		
		Ind. Gold Bronze .....	128			Mrs. Eisenhower .....	129		
		Ind. Pink .....	131			Mrs. H. E. Kidder .....	125		
		Ind. White .....	123			Mrs. Robinson .....	123		
		Ind. Yellow .....	126			Mrs. Roy .....	129		
		Indian Head .....	114			Mrs. Rotan .....	135		
		Indian Red .....	136			Muriel Rice .....	134		
		Indiana .....	133-137			Muto's Crimson .....	130		
		Incurved Delaware .....	129						
		Iowa .....	133-135						
		Irene .....	95-134						
		Iron Mountain .....	136						
		Ivanhoe .....	128						
		Ivory Glow .....	134						





## Index of Varieties

Poinsettia ..... 115	Rose Medallion ..... 122	Sonny ..... 138	Tuxedo ..... 119	Yel. Ambassador .... 125
Polar Ice ..... 134	Rose Spoon ..... 138	Southdown Pink .... 117	Twinkle ..... 138	Yel. Arcadia ..... 103
Polaris ..... 135	Rosita ..... 138	Souviner ..... 105		Yel. Avalanche ..... 135
Pomponette ..... 134	Rouge Cushion ..... 136	Spangles ..... 100		Yel. Beauregard .... 104
Popcorn ..... 96	Roulette ..... 135	Spellbound ..... 115-137	V	Yel. Betsy Ross ..... 126
Portrait ..... 117	Royal Bronze ..... 128	Spindrift ..... 134	Valencia ..... 121	Yel. Blanket ..... 135
Powderpuff ..... 134	Royal Robe ..... 137	Spode ..... 135	Valentine ..... 129	Yel. Calumet ..... 135
Prelude ..... 116	Rubaiyat ..... 113	Staccatto ..... 120	Valiant ..... 135	Yel. Calypso ..... 126
Princess ..... 121	Rubicon ..... 111	Starbright ..... 103	Vedova ..... 120	Yel. Cameo ..... 107
Princeton ..... 105	Ruby Breithaupt .... 135	Stardust ..... 98	Venoya ..... 120	Yel. Chattanooga ... 127
Priscilla ..... 99	Ruby Pompon ..... 136	Starlight ..... 103	Vesper ..... 98	Yel. Chris.
Pristine ..... 95	Rusticon ..... 113	Statesman ..... 103	Vesta ..... 96	Columbus ..... 102-134
Profile ..... 118		Sterling ..... 124	Vibrant ..... 108	Yel. Cordova ..... 107
Purdue (H) ..... 133-137		Stuart Ogg ..... 110	Violet ..... 137	Yel. Cushion ..... 134
Purple Cushion ..... 137	S	Stylist ..... 137	Vogue ..... 116	Yel. Daisy ..... 104
Purple Queen ..... 137	Sally ..... 110	Success ..... 136		Yel. Delaware ..... 126
Purple Spoon ..... 137	Salmon Pandora .. 118	Successor ..... 137	W	Yel. Dot ..... 103
Purple Star ..... 137	Salmon Precose .... 137	Sultan ..... 106	Wagonwheels ..... 116	Yel. Doty ..... 103
Purple Waters ..... 137	Salmon Valencia .... 121	Sulphur Spoon ..... 135	Waikiki ..... 129	Yel. Enchantress ... 107
	Samovar ..... 112	Sunapee ..... 134	Wedding Bells ..... 101	Yel. Fortune ..... 107
Q	Sam Williston ..... 136	Sunburst ..... 125-135	Whirlwind ..... 124	Yel. Galaxy ..... 107
Queen of Pinks ..... 130	Sarasota ..... 135	Sunfire ..... 104	White Anemone .... 97	Yel. Garza ..... 108
Queen's Lace ..... 123	Satellite ..... 101	Sungold ..... 127	White Bounty ..... 134	Yel. Glory ..... 127
	Sauterne ..... 103	Sunglow ..... 125	White Chief ..... 122	Yel. Halo ..... 103
R	Scarlet Crimson .... 136	Sunstone ..... 135	White Cloud ..... 134	Yel. Highbrow ..... 106
Radiance ..... 109-137	Sch. Yel. Daisy ..... 103	Sunnyside ..... 107	White Cushion ..... 134	Yel. Iceberg ..... 104
Ranger ..... 113	Scintillation ..... 119	Sunrise ..... 108	White Doty ..... 96	Yel. Igloo ..... 105
Rajah ..... 109-137	Sculpture ..... 98	Sunup ..... 103	White Enchantress .. 100	Yel. Irene ..... 135
Rayonnante ..... 130	Seafoam ..... 99	Sun Valley ..... 108	White Frick ..... 124	Yel. Ill. Snowdrift... 105
Real Gold ..... 135	Seagull ..... 96	Surfside ..... 99	White Keepsake .... 96	Yel. Ivanhoe ..... 125
Red Balcomb's Perf. 129	Seneca ..... 111	Susan Leighton ..... 124	White Lady ..... 100	Yel. Lace ..... 125
Red Cloud ..... 136	Sentinal ..... 124	Susanne Miller ..... 106	White Mary Garden 123	Yel. Leighton ..... 126
Red Daisy ..... 111	Sept. Bronze ..... 136	Sweepstake ..... 135	White Masquerade.. 134	Yel. L. I. Beauty... 106
Red Enchantress.. 114-137	Sept. Cheer ..... 136	Sybil ..... 111	White Mensa ..... 98	Yel. Marblehead .... 125
Red Empress ..... 114	Sept. Gold ..... 135		White Mistletoe .... 124	Yel. Marketeer ..... 127
Red Etheldra ..... 110	Sept. Sunshine ..... 135	T	White Norma ..... 99	Yel. Mefo ..... 126
Red Glitters ..... 128	Shalimar (H) ..... 134	Taffeta ..... 119	White Peter John .. 124	Yel. Moeller ..... 127
Red Glow ..... 136	Shamrock ..... 108	Talisman ..... 110	White Pink Chief ... 122	Yel. Monument ..... 126
Red Gold ..... 136	Shasta ..... 98	Talmeda ..... 102	White Pockett ..... 124	Yel. Nevada ..... 106
Red Humdinger ..... 112	Shibuya White ..... 95	Tangerine ..... 135	White Popcorn ..... 96	Yel. Pacesetter ..... 105
Red Minstrel ..... 114	Silver Ball ..... 134	Tapestry ..... 137	White Princess ..... 99	Yel. Paramount ..... 106
Red Princeton ..... 113	Silver Bow ..... 96	Tempo ..... 117	White Rayonnante .. 123	Yel. Peter John ..... 127
Red Riding Hood ... 136	Silver Cloud ..... 96	Thanks, Pink ..... 131	White Rice ..... 134	Yel. Pockett ..... 126
Red Rolinda ..... 113	Silvercrest ..... 99	Thelma ..... 113	White Riviera ..... 101	Yel. Queen ..... 126
Red Rust ..... 111	Silverplate ..... 95-134	Themesong ..... 123	White Sail ..... 134	Yel. Rayonnante .... 126
Red Seneca ..... 111	Silver Queen ..... 122	Theresa Stone ..... 134	White Snowdrop ..... 101	Yel. Riviera ..... 108
Red Velvet ..... 109-136	Silver Sheen ..... 122	The Titan ..... 112	White Spoon ..... 134	Yel. Sculpture ..... 105
Reflection ..... 137	Silversmith ..... 101	Thistle-down ..... 97	White Taffeta ..... 98	Yel. Sea Gull ..... 104
Remembrance ..... 109-136	Silvertone ..... 95	Thomas Johnson .... 116	White Tower ..... 134	Yel. Shasta ..... 105
Resolute ..... 110-137	Siren ..... 108	Thyra ..... 118	Whitehouse ..... 97	Yel. Shoesmith ..... 127
Revelation ..... 102	Sm. Cream White... 127	Time ..... 138	Whitetop ..... 97	Yel. Snow ..... 108
Reverence ..... 134	Smith's White ..... 124	Tiffany Rose ..... 138	White Valencia ..... 100	Yel. Snowcrest ..... 108
Reveille ..... 116	Snow ..... 102	Tip Top ..... 97	White Wonder ..... 134	Yel. Spoon ..... 102-135
Reward ..... 116	Snowcap ..... 101	Titanica ..... 138	White Yamane ..... 124	Yel. Supreme (H).... 135
Rhythm ..... 119	Snowclad ..... 97	Tobin's Yellow ..... 127	Wilson's White ..... 123	Yel. Taffeta ..... 105
Riviera ..... 122	Snowcrest ..... 101	Topaz ..... 115	Wilson's Yellow ..... 125	Yellowtop ..... 104
Rodell Imp. .... 135	Snowcrystal ..... 97	Topflight ..... 102	Wisconsin ..... 133-137	Yel. Valencia ..... 107
Ronnie ..... 138	Snowdrop ..... 101	Toronto ..... 109-136	Wychwood ..... 135	Yel. Waikiki ..... 127
Rosa ..... 137	Snowflurry ..... 99	Tranquility ..... 135	W. P. Snyder .. 109-135	Yolanda ..... 114
Rosalind ..... 122	Snowline ..... 124	Treasure ..... 102-135		Yukon ..... 101
Rose Delight ..... 131	Snowstorm ..... 100	Trenton ..... 101	Y	Yuleflame ..... 108
Rose Masterpiece .. 119	Songster ..... 96	Troubadour ..... 138	Yel. Acclaim ..... 107	
		Tuneful ..... 137	Yel. Albatross ..... 125	



## TABLE OF CONTENTS

### FLOWERING SCHEDULES:

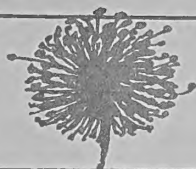
FLOWERING SCHEDULE .....	5-40
POT PLANT SCHEDULE .....	44-70
FAST DISBUD SCHEDULE .....	72-77

### VARIETY DESCRIPTIONS:

NEW GARDEN VARIETIES.....	133
STANDARD VARIETIES .....	123-132
POMPONS, DECORATIVES, SINGLE & ANEMONE VARIETIES .....	95-122
GARDEN VARIETIES .....	134-138

For complete alphabetical list of all varieties  
in Manual see pages 139-141.

AERATION .....	78
APHIDS .....	88
BLINDNESS .....	87
CALENDAR .....	back cover
CHEMICAL STERILIZATION .....	79
CLOTH HOUSES .....	87
COLLAR ROT .....	92
COMBINATION SPRAYS .....	94
CORN EAR WORM .....	89
CUTTINGS .....	78
CUTWORMS .....	89
DAYLENGTH CONTROL .....	1
DISBUDDING .....	84
DISEASES AND THEIR CONTROL.....	92-94
DISSPRAY .....	84
FAST DISBUD CULTURE .....	71
FERTILIZERS .....	41, 80, 81
FOLIAR NEMATODE .....	92
GREENHOUSE COOLING .....	86
INSECTICIDES .....	144
INSECTS AND THEIR CONTROL.....	88-92
INTERRUPTED LIGHTING .....	3
LATITUDE MAP .....	4
LEACHING .....	85
LEAF MINER .....	88
LEAF TYER .....	89
LIGHT INTENSITY .....	82
LIGHTING SCHEDULE .....	1
LIQUID FERTILIZING .....	81
MEALY BUGS .....	89
MIDGE .....	88
MILDEW .....	92
MITES .....	90
PETAL BURN .....	87
PINCHING .....	83
PLANTING .....	42, 82
PLASTIC HOUSES .....	87
POT PLANT CULTURE .....	41-43
PREMATURE BUDDING .....	84
PRICE TABLE .....	132-133
PRUNING .....	83
RAY BLIGHT .....	93
RED SPIDER .....	90
RESPONSE GROUP .....	1
ROOT KNOT NEMATODE .....	93
RUST .....	93
SEPTORIA LEAF SPOT .....	93
SHADING INFORMATION .....	2, 41
SHADING SCHEDULE .....	2
SHIPPING FLOWERS .....	87
SOIL MANAGEMENT .....	41, 79
SOLUBLE SALTS .....	80
SOWBUGS .....	90
STEAM STERILIZATION .....	79
STEM ROT .....	92
SUPPORTS .....	87
SYMPHYLIDS .....	90
TARNISHED PLANT BUG .....	91
TAKING BUD .....	84
TEMPERATURE .....	2, 41, 85
TERMITES .....	91
THRIPS .....	91
VENTILATION .....	85
VERTICILLIUM WILT .....	93
VIRUSES .....	94
WATERING .....	41, 85



## BLACK SHADING CLOTH

Black Sheen cloth guaranteed to reduce the light intensity to 2 foot candles or less when shading your early chrysanthemums.

**Style No. 575**—Quality cloth sewn in multiple of 18-inch widths to your specifications.

**Style No. 258**—Extra heavy cloth for longer service sewn in multiples of 18-inch widths to your specifications.

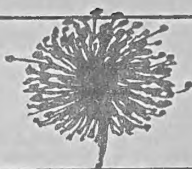
Cloth is approximately 36 inches wide unsewn in rolls or sewn to your dimensions in multiples of 18 inches. There is a loss of about 2 inches per yard in width because of shrinkage in preparation and overlapping in sewing. So allow for this in estimating the width of the cloth you need. Here is a chart to help you estimate the width and length of the cloth required to cover different sized benches or beds with wire placed 4 feet above the bench:

<u>For a bench of this width</u>	<u>Use cloth of this width</u>	<u>And add to length for end hangover</u>
3 feet	12 feet	9 feet
3½	12	8½
4	13½	9½
4½	13½	9
5	15	10



**WHEN ORDERING . . . SPECIFY THE STYLE YOU WANT!**

Prices available upon request.



## INSECTICIDES, FUNGICIDES AND FUMIGANTS

Aramite 15W			4 lb. bag	3.20
Chlorobenzilate 25W			4 lb. bag	4.20
Deenate 50-W (DDT)	4 lbs.	2.25	48 lb. Case	21.60
Dieldrin (50%)	4 lb. bag	6.60	(12 - 4 lb. bags)	
Endrin 1.6			1 gal.	11.90
Fermate	3 lbs.	2.45	Case (36 lbs.)	25.80
Carton (24 cans)				
Fulex Parathion Fumigators	1,000 cu. ft.	11.50	5,000 cu. ft.	14.50
For Red Spiders, Aphids, and Thrips	2,000 cu. ft.	11.50	10,000 cu. ft.	17.00
			20,000 cu. ft.	26.00
Fulex Aphid-Smoke Fumigators	1,000 cu. ft.	11.00	5,000 cu. ft.	14.00
For Aphids and Adult White Flies	2,000 cu. ft.	11.00	10,000 cu. ft.	17.00
			20,000 cu. ft.	25.00
Fulex Spider-Mite Fumigators				
For Red Spiders, including some Parathion-resistant strains on carnations, chrysanthemums and snapdragons	1,000 cu. ft.	11.50	5,000 cu. ft.	14.50
	2,000 cu. ft.	11.50	10,000 cu. ft.	19.00
			20,000 cu. ft.	31.00
Isotox 1 (supplied in 50 lb. bags only)	50 lbs.	8.50		
Kelthane Emulsion 18.5	gal.	15.75	Case (4 1-gal.)	per gal. 15.00
Kelthane Wettable 18.5	3-lb. bag	4.80	Case (16 3-lb. bag)	per lb. 1.50
Lindane (25%)			4 lb. bag	8.35
Malathion (25%)			4 lb. bag	3.25
Mildex			3 lb. bag	5.80
Nicofume Liquid			gallon (8 lbs.)	13.80
Nicofume Pressure Fumigators	½ lb. cans (12 cans)			5.65
	1 lb. cans (12 cans)			10.50
Optox (10% DDT)			gal.	12.00
Orthocide 50 W	5 lbs.	5.70	50-lb. drum	54.00
Plantfume 103	5,000 cu. ft. carton	—	36	10.50
	20,000 cu. ft. carton	—	12	12.00
Parathion Spray 15% Wettable			4 lb. bag	3.50
Parzate (Powder)	3 lb. bags	3.30		
P-40	25 lbs.	20.00	50 lbs.	37.50
			100 lbs.	70.00
Snailicide	5 lbs.	4.00	20 lbs.	13.00
Snarol	6 lbs.	2.00	50 lbs.	9.75
Sodium Selenate	4 oz.	4.00	1 lb.	12.50
Terrachlor 75 WP			5 lb.	5.00
			Case (10 5-lb. bags)	45.00
Vapotone XX			1 gal.	12.00
Zerlate	3 lbs.	2.45	Case (36 lbs.)	25.80

Prices subject to change without notice.

For your other needs refer to your

*Gloeckner* Carnation Manual and Seed Catalog  
or see your *Gloeckner* Representative



# FLOWER HOLIDAY CALENDAR

YEAR	VALENTINE'S DAY	EASTER	MOTHER'S DAY	MEMORIAL DAY	THANKSGIVING	CHRISTMAS
1958	FEB. 14	APRIL 6	MAY 11	MAY 30	NOV. 27	DEC. 25
1959	FEB. 14	MARCH 29	MAY 10	MAY 30	NOV. 26	DEC. 25

1958

1959

## JANUARY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		1	2	3	4	
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

## JULY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## JANUARY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		1	2	3		
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## JULY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		1	2	3	4	
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

## FEBRUARY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

## AUGUST

Sun	Mon	Tue	Wed	Thur	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

## FEBRUARY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

## AUGUST

Sun	Mon	Tue	Wed	Thur	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

## MARCH

Sun	Mon	Tue	Wed	Thur	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

## SEPTEMBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

## MARCH

Sun	Mon	Tue	Wed	Thur	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

## SEPTEMBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

## APRIL

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

## OCTOBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		1	2	3	4	
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

## APRIL

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		1	2	3	4	
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

## OCTOBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
			1	2	3	
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## MAY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		1	2	3		
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## NOVEMBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

## MAY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

## NOVEMBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

## JUNE

Sun	Mon	Tue	Wed	Thur	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

## DECEMBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

## JUNE

Sun	Mon	Tue	Wed	Thur	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

## DECEMBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
	1	2	3	4	5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		



